



**U.S. Army Corps
of Engineers**



**Formerly Used
Defense Sites**

FINAL SAMPLING REPORT
Drinking Well Sampling Event
Former Camp Butner, NC

Prepared by:

U.S. Army Corps of Engineers
Wilmington District
69 Darlington Avenue
Wilmington, NC 28403

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EXECUTIVE SUMMARY

The U.S. Army Corps of Engineers (USACE), Wilmington District conducted a drinking well sampling event in the former Camp Butner, North Carolina (NC) in August 2004. This report summarizes the results of the sampling event. The objective of the sampling event was to determine if there are any impacts on groundwater quality associated with Department of Defense (DOD) activities at the former Camp Butner. The sampling event consisted of the collection and analysis of groundwater samples collected from residential wells. The former Camp Butner area is shown in Figure 1.

Twenty-three drinking wells were sampled during this event. The rationale for the sample location was to bias the wells within areas used as ranges at the former Camp Butner or near areas with historical ordnance and explosive waste (OEW) discoveries. The rationale for each sample location is shown in Table 1. An off-site location was selected for comparison purposes because of its position outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity.

Groundwater samples were collected from each location identified in Table 2 and Figure 2. The procedure used for the sampling event was consistent with the Environmental Protection Agency (EPA) Region 4 standard operating procedure (SOP) for residential well sampling and in accordance with the USACE Wilmington District Sampling and Analysis Plan (USACE 2004). The sampling procedure included determination of the well location (global positioning satellite coordinates), selection of the sample location (spigot at the well or before treatment system), purging of the well, sample collection, laboratory analysis, and data review using the USACE Automated Data Review software.

Samples from each location were analyzed for a comprehensive list of substances including those typically analyzed for under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The analytical list is identified in Table 3. Screening levels are tools used to evaluate the analytical results. The screening levels serve as an initial comparison to help determine what subsequent action (if any) is necessary. The project screening levels used for this sampling event are included in Table 4.

The complete analytical results are included in Table 5 and only the detected results are shown in Table 6. A total of 188 substances were analyzed at each location not including metals twice (total and dissolved). The results indicate a large number of substances were not detected. The results indicate only 9 substances were detected above the project screening levels. Substances detected above the project screening levels are shown in Figures 3 through 6. The 9 substances detected above the project screening levels include: chloroform; bis(2-ethylhexyl)phthalate; alpha-chlordane; gamma-chlordane; heptachlor epoxide; perchlorate; iron; lead; and manganese. Evaluation of these substances indicates only perchlorate and lead may be present due to DOD activities at Camp Butner.

Perchlorate was detected at 12 of the 23 locations including the off-site location. Perchlorate was detected above the project screening level at two locations, which were relatively shallow wells. All of the perchlorate detections are below or within the current EPA drinking water guidance range for human health protection. Perchlorate is both a naturally occurring and man-made substance. Potential sources at the Camp Butner area may include munitions, flares, fertilizer application, and defoliant application. One homeowner participating in the investigation has confirmed the use of Bulldog Soda fertilizer at his residence. Bulldog Soda has been determined to contain naturally occurring perchlorate.

Lead was detected at 9 locations and detected above the project screening level at one location in the unfiltered sample and at one location in the filtered sample. Lead typically adsorbs to sediment and these detections may be due to sediment in the sample. Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

The results do not identify any clear pattern or trend and the data is inconclusive whether DOD activities at Camp Butner have impacted the groundwater quality. However, the perchlorate and lead detections warrant further investigation.

CONTENTS

Section	Title	Page
1.0	INTRODUCTION	1
1.1	Purpose and Objective	1
1.2	Site History	1
1.3	Summary of Existing Site Data.....	1
2.0	PHYSICAL CHARACTERISTICS OF THE STUDY AREA.....	2
2.1	Physiography	2
2.2	Surface Water.....	2
2.3	Geology and Soils	2
2.4	Hydrogeology	3
2.5	Drinking Water Supply	3
3.0	METHODOLOGY	4
3.1	Determination of Sample Locations	4
3.2	Field Investigation	4
3.2.1	Determination of Well Location	4
3.2.2	Sampling Point Selection.....	5
3.2.3	Purging.....	5
3.2.4	Sample Collection.....	6
3.3	Laboratory Analysis.....	8
3.4	Project Screening Levels	8
4.0	RESULTS	9
4.1	Volatile Organic Compounds	9
4.2	Semi-Volatile Organic Compounds.....	9
4.3	Pesticides and PCBs.....	9
4.4	Herbicides	10
4.5	Explosive Compounds and Nitroglycerin.....	10
4.6	Perchlorate	10
4.7	Cyanide	11
4.8	Metals.....	11
4.9	Duplicate Samples	12
4.10	Summary	13
5.0	DATA REVIEW.....	14
6.0	RECOMMENDATIONS.....	15
7.0	REFERENCES	16

CONTENTS (continued)

FIGURES

<u>Number</u>	<u>Title</u>
Figure 1	General Location Map
Figure 2	Sample Location Map
Figure 3	Project Screening Level Exceedances for Locations 1 through 7
Figure 4	Project Screening Level Exceedances for Locations 8, 9, 10, and 20
Figure 5	Project Screening Level Exceedances for Locations 11 through 19
Figure 6	Project Screening Level Exceedances for Locations 21 through 23

TABLES

<u>Number</u>	<u>Title</u>
Table 1	Sample Location and Rationale
Table 2	Sample Collection Information
Table 3	Analytical Methods
Table 4	Project Screening Levels
Table 5	Analytical Results
Table 6	Detected Results

APPENDICES

Appendix A	Well Information
Appendix B	Sample Record forms and Chain of Custody Forms
Appendix C	Complete Laboratory Electronic Data Packages (provided on CD in binder pocket)
Appendix D	Data Review Report and Automated Data Review Files (provided on CD in binder pocket)

LIST OF ACRONYMS, ABBREVIATIONS AND SYMBOLS

µg/L	micrograms per Liter
ADR	Automated Data Review
bgs	Below Ground Surface
BVWST	B&V Waste Science and Technology Corporation
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
Co	Company
DOD	Department of Defense
EDMS	Environmental Data Management System
EE/CA	Engineering Evaluation/Cost Analysis
EM	Engineer Manual
EPA	Environmental Protection Agency
ft	Foot/Feet
gpm	Gallon(s) Per Minute
GPS	Global Positioning Satellite
Inc	Incorporated
L	Liter
MCL	Maximum Contaminant Level
mL	milliliter
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MTBE	Methyl Tert Butyl Ether
NAD	North American Datum
NAS	National Academy of Sciences
NC	North Carolina
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of the Environment and Natural Resources
OEW	Ordnance and Explosive Waste
PCB	Polychlorinated Biphenyl
PRG	Preliminary Remediation Goal
QA	Quality Assurance
QC	Quality Control
SI	Site Investigation
SOP	Standard Operating Procedure
SVOC	Semi-volatile Organic Compound
USACE	United States Army Corps of Engineers

LIST OF ACRONYMS, ABBREVIATIONS AND SYMBOLS (continued)

USGS	United States Geology Service
UXO	Unexploded Ordnance
VOC	Volatile Organic Compound

1.0 INTRODUCTION

1.1 Purpose and Objective

This report has been prepared by the United States Army Corps of Engineers, Wilmington District (USACE) to summarize the fieldwork conducted from August 9 through August 12, 2004 in the area of the former Camp Butner, North Carolina (NC). The fieldwork was conducted by USACE, Wilmington District personnel. The objective of the sampling effort consisted of the collection and analysis of groundwater samples collected from drinking wells to determine if there are any impacts on groundwater quality from use of Camp Butner.

1.2 Site History

Camp Butner, a former U.S. Army installation, was located in the north central part of North Carolina in the counties of Granville, Durham, and Person (see Figure 1). Camp Butner was officially activated in August 1942 and occupied approximately 40,400 acres. The camp was established as a training and maneuvering area for World War II combat troops. In addition to the troop cantonment area, the reservation included at least 15 ammunition training ranges, hand grenade ranges, a gas chamber, flame-thrower training range, a small arms training range, and ammunition shipping, receiving, and storage areas. The camp remained active until 1946 when it was declared excess (USACE 1993). Existing land use of the former Camp Butner includes approximately 16,550 acres owned by the State of North Carolina and approximately 4,750 acres occupied by the Camp Butner National Guard Training Center. The remaining land consists of the Town of Butner, residential use, agricultural use, and the Federal Correctional Complex.

1.3 Summary of Existing Site Data

USACE, Savannah District conducted a Site Investigation (SI) of a landfill located under Lightning Lake in November 1991. Soil and groundwater samples were collected from four borings completed as groundwater monitoring wells around the perimeter of Lightning Lake. Surface water and sediment samples were collected from Lightning Lake, Lake Butner, and an unnamed creek upstream of Lightning Lake. The samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls (PCBs), explosives, metals, total organic halogens, and total recoverable petroleum hydrocarbons. An SI report was prepared in May 1992 and concluded based on the lab data and current land use, human health or the environment were not imminently threatened and recommended no further action (BVWST/USACE 1992) which the North Carolina Department of Environment and Natural Resources (NCDENR) concurred.

2.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

This section discusses the physical characteristics of the Camp Butner area including geologic and hydrogeologic conditions.

2.1 Physiography

The former Camp Butner area is located in the Piedmont province, which includes rolling topography with rounded hills and long low ridges. The terrain is hilly with elevation in the area ranging from 280 to 500 feet above mean sea level (USACE 1993).

2.2 Surface Water

The study area contains a number of perennial streams with numerous intermittent tributaries. These streams generally drain from the hills to the southwest. The majority of this area drains into the Knap of Reeds Creek, which is part of the Neuse River watershed. A small portion of the western section of this facility drains to the west into the Flat River. The Flat River also drains into Neuse River.

2.3 Geology and Soils

The Camp Butner area is located within Durham sub-basin of the Triassic basin. The basin is characterized by east dipping Triassic sedimentary rocks of the Newark Group. The eastern edge of the basin is defined by the Jonesboro fault. The Triassic rocks are comprised of arkosic sandstones, shales, and conglomerates that are intruded by younger diabase dikes and sills. The soils in the former Camp Butner area are in the White-Store Creedmoor soil association, which consists of gently sloping to moderately steep well-drained soils (sandy loam) with a subsoil of firm clay (USACE 1992).

The United States Geology Service (USGS) indicates the geology of the area consists mainly of Cambrian metavolcanic rocks and Paleozoic sedimentary and metasedimentary rocks with some Lower Paleozoic and Precambrian granite gneiss and granite and Lower Mesozoic sedimentary and igneous rocks. According to the USGS, the primary aquifer in the Camp Butner area is a crystalline rock and undifferentiated sedimentary rock aquifer, which includes granite, mafic and felsic volcanic rocks, gneiss, schist, slate, phyllite, quartzite, minor conglomerate, sandstone, and shale (USGS 1997).

2.4 Hydrogeology

Information provided by residents in the former Camp Butner area participating in this sampling event is provided in Appendix A. Two well drilling companies that have installed wells in the former Camp Butner area were contacted to gather additional information regarding typical well and groundwater characteristics. These well drilling companies are Acme Well Company (Co), Incorporated (Inc) in Durham, North Carolina and Craig Husketh Water Well Drilling in Creedmoor, North Carolina. Both of these sources indicate groundwater used for drinking water at the site is typically a bedrock aquifer. Wells are typically completed as open holes in the bedrock below the surface casing. These sources also indicate there is a surficial aquifer.

Mr. David Hutson of Acme Well Co, Inc indicated the geology was complex in the former Camp Butner area and wells could range from 100 to 600 feet (ft) in depth with an average depth of approximately 250 ft. Mr. Hutson stated the casing depth is typically 50 ft deep. The flow rate could range from 4 to 15 gallons per minute (gpm), however, the flow was typically toward the lower end around 4 gpm. Mr. Hutson also indicated the depth to groundwater could range from a shallow depth to a couple of hundred ft.

Mr. Craig Husketh of Craig Husketh Water Well Drilling indicated wells in the former Camp Butner are typically 200 to 300 ft deep. Mr. Husketh stated the casing depth ranges from 20 to 80 ft deep and the flow rate ranges from 2 to 10 gpm. Mr. Husketh indicated the average depth to groundwater could range from 10 to 400 ft.

Specific information regarding the monitoring wells installed in 1991 for the SI indicate groundwater was encountered in one well in the unconsolidated aquifer above bedrock at 24 ft bgs. Groundwater was encountered in the other three wells from 7.5 feet to 13 feet in the bedrock at a depth of 21 to 45 feet bgs. After well installation, static water was measured from 15 to 45 ft bgs (BVWST/USACE 1992).

2.5 Drinking Water Supply

The potable water supply for the city of Butner was constructed in 1942 to support soldiers at Camp Butner. The city of Butner assumed control of the potable water supply system after Camp Butner was closed. The source of potable water is the Holt Reservoir (also known as Lake Butner), with a storage capacity of approximately 10 billion gallons (USACE 1993). The Holt Reservoir is fed by Lightning Lake. Potable water outside of the city of Butner is typically provided by individually owned wells.

3.0 METHODOLOGY

3.1 Determination of Sample Locations

Table 1 identifies the addresses and rationale for the selection of wells for this sampling event. Twenty-five (25) primary locations and 13 alternate locations were originally selected for sampling during the investigation. These locations were selected from information obtained (i.e. rights of entry) during the Unexploded Ordnance (UXO) Engineering Evaluation/Cost Analysis (EE/CA) site characterization. A site visit was conducted on April 28, 2004 to verify residences at the selected locations. Several locations were removed from further consideration because a residence was not present or due to well closure at that location. Additional locations were included based on visual confirmation of a residence and well during this site visit.

A well sample request and well information sheet was mailed to the 38 locations identified on July 8, 2004. The objective was to sample 25 wells, which is approximately 10% of the existing drinking wells in the Camp Butner area. This is an adequate sample size for an initial screening investigation. Several of the well sample requests were not returned or returned with a response indicating no desire to participate in the sampling event. Twenty-one well sample requests were returned with positive responses to participate in the sampling event. Phone communication with some residents that did not return the well sample requests obtained additional locations resulting in 23 final locations selected for the sampling event. Information regarding the wells provided by the residents has been summarized in Appendix A.

3.2 Field Investigation

Groundwater samples were collected from each location identified in Table 2 and Figure 2. The sampling event was conducted from August 9 to August 12, 2004. Information in this table includes sampling location, date collected, and well global positioning satellite (GPS) coordinates. The procedure used for the sampling activity is consistent with the Environmental Protection Agency (EPA) Region 4 standard operating procedure (SOP) for residential sampling (USEPA 2001) and USACE Engineer Manual (EM) 200-1-3 Requirements for Sampling and Analysis Plans (USACE 2001).

3.2.1 Determination of Well Location

At each location USACE personnel located the well visually. The coordinates of the well were determined using a Trimble GeoExplore XT GPS unit. For well locations where the coordinates could not be determined at the well due to limited opening above the GPS unit (i.e. tree canopy), the coordinates were collected from the nearest point where a reading was possible. The Trimble

GeoExplore XT GPS unit has an accuracy of approximately 10 feet. Well location data for each residence is included in Table 2 and is expressed as North American Datum of 1983 (NAD 83) NC State Plane Grid in feet.

3.2.2 Sampling Point Selection

Whenever possible, a sample point was selected which was as close as possible to the well itself. If possible, the sample point was located prior to (upstream of) a treatment system or storage tank. At a couple of the residences, the sample point was located after a storage tank. In these instances, the system was purged additional time to allow for a complete exchange of water into the tank and at the sample location. An outdoor spigot was used as the sample point for all residences.

One location was selected as an offsite location for comparison purposes because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. To date, the direction of groundwater flow in the vicinity of Camp Butner has not been confirmed and thus the chosen offsite location may not be a true background location.

3.2.3 Purging

All locations were purged for a minimum of 15 minutes unless otherwise noted in the well purge and sampling record forms included in Appendix B. The wells were purged at a high flow rate, approximately 3-5 gallons per minute (gpm). Purge water was allowed to discharge, approximately 20 to 30 feet away from the sampling point, to the ground surface. Water quality data was collected after purging a minimum of 15 minutes using a YSI 9620 water quality meter to ensure a consistent water stream and groundwater representative of the aquifer.

The YSI 9620 water quality meter was calibrated daily following the manufacturer's instructions. Calibration was successful for pH, conductivity, dissolved oxygen, and oxidation-reduction potential. However, calibration for turbidity was difficult and did not appear to be successful. This problem was noted on the well purge and sampling record forms for the first location of each day: North Carolina National Guard (August 9th); Camp Barham (August 10th); 4835 Uzzle Road (August 11th); and 4710 Moriah Road (August 12th). Visual inspection of these locations indicated the water was clear indicating an incorrect turbidity reading from the meter.

At most locations, the well was allowed to continue purging at a high flow rate, approximately 3-5 gpm while water quality data was recorded to address the turbidity calibration problem. Therefore, the purge period for most locations was approximately 30 minutes. A minimum of

three readings were recorded for the water quality data on the well purge and sampling record forms included in Appendix A. These forms also contain a description of the sampling location, and information regarding any residential treatment/storage.

At 564 Bethany Church Road, flow from the spigot slowed and stopped periodically after the reading for the water quality data was recorded. In order to avoid running the well completely dry, recording of the water quality data was stopped after one reading. The total purge time for this location was approximately 23 minutes.

3.2.4 Sample Collection

After purging was completed and stabilization parameters were documented, the required samples were collected. Samples were collected from each location for laboratory analysis in the following order:

1. Three 40-milliliter (mL) glass vials preserved with hydrochloric acid for VOCs
2. Two 1 liter (L) amber glass nonpreserved containers for SVOCs
3. Two 1 L amber glass nonpreserved containers for pesticides/PCBs
4. Two 1 L amber glass nonpreserved containers for herbicides
5. Three 1 L amber glass nonpreserved containers for explosive compounds and nitroglycerin
6. One 250 mL plastic nonpreserved container for perchlorate
7. One 250 mL plastic container preserved with sodium hydroxide and asorbic acid for cyanide
8. One 250 mL plastic container preserved with nitric acid for total metals
9. One 250 mL plastic container preserved with nitric acid for dissolved metals

With the exception of the samples for dissolved metals at all locations, all of the samples were collected directly into the sample container. The water samples for dissolved metals were first collected into a clean unpreserved 250 mL or larger plastic container first. A peristaltic pump equipped with an inline 45-micrometer filter and tubing dedicated to that location was used to pump the sample out of the non-preserved pre-cleaned bottle and into the appropriate pre-preserved sample bottle.

At 4878 Uzzle Road, the spigot used for collecting the samples was too low to allow for collection of water directly into the amber glass containers. A clean unpreserved polyethylene container was used to collect the water sample and subsequently fill the amber glass containers. No organic compounds were detected in the primary or duplicate samples above the laboratory detection limit, despite the use of polyethylene bottle coming into contact with samples being

analyzed for SVOCs, pesticides, PCBs, explosives and nitroglycerine. Sample collection at this location for VOCs, perchlorate, cyanide, total metals, and dissolved metals was collected directly into the sample container.

Primary samples were collected from each of the 23 locations for laboratory analysis during the sampling event. In addition, Quality Assurance/Quality Control (QA/QC) samples, consisting of field duplicate and matrix spike/matrix spike duplicate (MS/MSD) were collected. Temperature blanks were included in each sample container and trip blanks were included in each sample container with VOCs for laboratory analysis. A short description of these QA/QC samples is provided below:

- A field duplicate is an environmental sample used to assess field precision. The collection of duplicate groundwater samples is obtained by alternately filling sample containers with the primary sample from the sampling device for each parameter.
- A matrix spike (MS) is an environmental sample to which known concentrations of analytes have been added. A matrix spike duplicate (MSD) is an environmental sample, which is spiked with known concentrations of substances. The primary purpose of the MS and MSD samples is to assess the effect of the matrix on the analytical process. A secondary purpose is to assess the precision of the analytical process.
- Trip blanks are samples of organic-free (deionized) water that are prepared in the laboratory and shipped onsite with the other sample containers. They are then returned to the laboratory unopened in each shipping container that contains aqueous VOC samples and analyzed. Trip blanks are used to assess if any volatile contamination has been introduced in the sampling or sample handling or sample storage process.
- Temperature blanks are containers (e.g., 40 mL) of water packaged along with field samples in the shipping cooler that represent the temperature of the incoming cooler upon receipt at the laboratory. Use of these samples within a shipping container enables the receiving laboratory to assess the temperature of the shipment without disturbing any project field samples.

Field duplicate samples were collected at a rate of 10% or three samples. The locations of the duplicate samples were 653 Lakeview Drive, 4835 Uzzle Road, and 2202 Tilley Farm Road. MS/MSD samples were collected at a rate of 5% or one sample equal to two sample volumes). Trip blanks were shipped to the laboratory every day in the shipping container with the VOC samples. A trip blank was inadvertently not included in the shipping container with VOC samples on August 10th. The only VOC detected in samples collected on August 10th was Chloroform at an estimated concentration of 0.23 ug/L at Camp Eason. Rinsate blanks were not collected since dedicated sampling equipment was used for each location.

3.3 Laboratory Analysis

All groundwater samples were placed in a cooler with ice immediately following collection. At the end of each sampling day the ice was repackaged in order to maintain the temperature during shipping. The samples collected during that day were shipped via FedEx to Accutest Laboratories in Dayton, New Jersey 08810. Samples for perchlorate analysis were sent from the Accutest Laboratory to General Engineering Laboratories at 2040 Savage Road, Charleston, South Carolina 29417. Chain of Custody forms can be found in Appendix B. The samples were analyzed for the groups of parameters and analytical methods shown in Table 3.

For the VOC analysis a purge volume of 25 mL was specified in order to obtain the lowest possible detection levels. The specified data reporting package was a fully data validatable USEPA level 4-type, suitable for third party data validation, which includes all raw data. All analytical results will be reviewed using the USACE Automated Data Review and Environmental Data Management System (ADR/EDMS) Software, which complies with the USEPA National Functional Guidelines for organics and inorganic analysis. The data review was conducted by the USACE contractor ENSR. A summary of the data review is included in section 5.

3.4 Project Screening Levels

The project screening levels are tools used to evaluate the analytical results and serve as an initial comparison to help determine what subsequent actions are necessary. The project screening levels were identified by the USACE, Wilmington District in the Sampling and Analysis Plan (USACE 2004) and concurred by NCDENR.

Identification of the screening levels was identical for each substance to be analyzed. The most stringent of the North Carolina groundwater quality standards in 15A North Carolina Administrative Code (NCAC) 02L.0202 or the Federal Maximum Contaminant Levels (MCLs) in 40 Code of Federal Regulations (CFR) 141.61 and 141.62 were identified as the project screening level. If there was not a NC groundwater quality standard or Federal MCL for a substance, the USEPA Region IX tap water Preliminary Remediation Goal was identified as the project screening level. The project screening levels are included as Table 4.

4.0 RESULTS

This section discusses the analytical results by groups of analytical substances. Table 5 contains all of the laboratory analytical results for each location. Table 6 is provided to clarify the results and identifies only the detected substances for each location. Figures 3 through 6 illustrate the substances that were detected above project screening levels for each location. Appendix C contains an electronic version of the laboratories full data package.

4.1 Volatile Organic Compounds

Two VOCs were detected above the laboratory detection limit. Methyl tert butyl ether (MTBE) was detected at 71.1 micrograms per Liter ($\mu\text{g/L}$) (4710 Moriah Road), which is below the project screening level of 200 $\mu\text{g/L}$. MTBE is almost exclusively used as a fuel additive in motor gasoline. MTBE came into use in 1979 (<http://www.epa.gov/safewater/mtbe.html>), which is after the close of Camp Butner in January 1947. This detection of MTBE may be related to an underground storage tank in the area or spillage of gasoline associated with filling vehicles.

Chloroform was detected at an estimated concentration of 0.23 $\mu\text{g/L}$ (Camp Eason), which is above the project screening level of 0.19 $\mu\text{g/L}$. Small amounts of chloroform may be formed as an unwanted product during the process of adding chlorine to water for disinfection purposes.

4.2 Semi-Volatile Organic Compounds

One SVOC was detected above the laboratory detection limit at two locations. Bis(2-ethylhexyl)phthalate was detected at 9.3 $\mu\text{g/L}$ (Camp Eason) and 7.9 $\mu\text{g/L}$ (5057 Clayton Road), which are above the project screening level of 3 $\mu\text{g/L}$. Bis(2-ethylhexyl)phthalate is a common lab contaminant introduced during the analytical process and may be the source of its presence.

4.3 Pesticides and PCBs

Three pesticides were detected above the laboratory detection limit at one location (2022 Tilley Farm Road). Alpha-Chlordane was detected at 0.088 $\mu\text{g/L}$ and gamma-Chlordane was detected at 0.13 $\mu\text{g/L}$, which are above the project screening level of 0.027 $\mu\text{g/L}$ for the total of all chlordane compounds. Heptachlor epoxide was detected at 0.48, which is above the project screening level of 0.004 $\mu\text{g/L}$.

Chlordane and heptachlor epoxide were first introduced in the United States in 1947 and 1950 respectively. This time frame is after the close of Camp Butner in January 1947. These

detections may be associated with agricultural used in the area.

(<http://envirocancer.cornell.edu/FactSheet/Pesticide/fs11.chlordane.pdf>)

(<http://envirocancer.cornell.edu/FactSheet/Pesticide/fs12.heptachlor.pdf>)

PCBs were not detected above the laboratory detection limit at any location.

4.4 Herbicides

Herbicides were not detected above the laboratory detection limit at any location.

4.5 Explosive Compounds and Nitroglycerin

Explosive compounds and nitroglycerin were not detected above the laboratory detection limit at any location.

4.6 Perchlorate

Perchlorate was detected at 12 of 23 locations ranging from 0.079 to 10.3 µg/L. Perchlorate was detected above the project screening level of 3.6 µg/L at two locations. The detections above the project screening level were 3.94 µg/L (652 Lakeview Drive) and 10.3 µg/L (564 Bethany Church Road). These two detections above the project screening level were both detected in relatively shallow wells according to information provided by residents (Appendix A). The depth of these wells is 120 ft (564 Bethany Church Road) and 145 ft (652 Lakeview Drive).

Currently there is not a Federal or NC standard for perchlorate. The project screening level is the EPA Region IX tap water preliminary remediation goal (PRG), which is intended as an initial screening-level evaluation of environmental measurements. The PRGs are not legally enforceable standards and are used for screening purposes only. In January 2003, the EPA reaffirmed its 1999 interim guidance, which identified a range of 4-18 µg/L as the drinking water range for perchlorate for protection of human health. The guidance is considered interim pending the outcome of the National Academy of Sciences (NAS) review of EPA's risk assessment. The perchlorate detections of 3.94 and 10.3 µg/L are below or within this interim guidance range.

Perchlorate is both a naturally occurring and man-made substance. Perchlorate is found naturally occurring in some fertilizers made from Chilean nitrates. These fertilizers are primarily used for certain crops including fruits, vegetables, tobacco, and cotton. A particular fertilizer that is imported from Chile in the United States is Bulldog Soda. Bulldog Soda has been confirmed to contain naturally occurring perchlorate (Urbansky 2000). One homeowner who had a perchlorate detection has confirmed the use of Bulldog Soda fertilizer at their residence.

Perchlorate is also used as a manmade substance in numerous applications throughout the world. Some of these applications include:

- Oxidizing agent in munitions, fireworks, and flares
- Impurity in sodium chlorate used as a defoliant the agricultural and railroad industry for weed control
- Used to fix dyes in the textile industry
- Bleaching agent in the paper and pulp industry
- Used as a component of air bag inflators
- Manufacture of matches

A number of potential sources exist in the Camp Butner area and include munitions and the agricultural, railroad, and textile industries.

4.7 Cyanide

Cyanide was not detected above the laboratory detection limit at any location.

4.8 Metals

As stated earlier, samples for metals analysis were collected twice. Many metals are likely to adsorb to sediment in groundwater samples and potentially influence the analytical results. The first sample is collected directly from the sample point and is referred to as the total metals sample. The second sample for metals was collected in a clean unpreserved container and transferred through a filter to a clean preserved container, producing a dissolved metals sample. This discussion refers to the total metals results unless specifically mentioned otherwise.

Twenty metals were detected above the laboratory detection limits at various locations including aluminum, arsenic, barium, beryllium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, sodium, thallium, vanadium, and zinc. Only iron, lead, and manganese were detected above the project screening level.

Iron was detected at 13 of 23 locations and was detected above the project screening level of 300 µg/L at 10 locations. At 6 of the 10 locations where iron was detected above the project screening level, the dissolved metals result was not detected above the laboratory detection limit of 100 µg/L. At all locations where iron was detected the dissolved metals result was much lower than the total metals result. These results indicate the difference between the total metals and dissolved metals results are most likely due to sediment entrained in the samples.

Manganese was detected at 18 of 23 locations and was detected above the project screening level of 50 µg/L at 14 locations. The project screening levels for iron and manganese are the NC groundwater quality standards. These standards are identical to the Federal MCL, which are secondary MCLs and are primarily for aesthetics such as taste and odor in public water systems.

Corrosion or iron-fixing bacteria on iron and steel casings and well fittings can contribute to high iron concentrations. According to the USGS the primary aquifer in the former Camp Butner area is a crystalline rock aquifer. Crystalline rock aquifers are composed of crystalline metamorphic and igneous rocks of many types. The crystalline rocks can contribute iron and manganese in the groundwater when the rocks are weathered. The median iron concentration in crystalline aquifers is around 1,000 µg/L with some concentrations as high as 25,000 µg/L (USGS 1997). The presence of iron and manganese is most likely naturally occurring.

Lead was detected at 8 of 23 locations and was detected above the project screening level of 15 µg/L at one location at 39.9 µg/L in the total metals or unfiltered sample (4535 Uzzle Road). Lead was not detected above the laboratory detection limit of 3.0 µg/L for dissolved or filtered metals. This appears to indicate sediment was entrained in the sample causing the higher total metals result. Lead was detected at the reference location at 4.4 µg/L.

Lead was also detected above the project screening level at 35.7 µg/L at one location in the dissolved metals or filtered sample (Camp Barham). Lead was detected at 8.2 µg/L in the total or unfiltered metals result for lead for this location, which does not exceed the project screening level of 15 µg/L. The dissolved lead concentration being greater than the total lead concentration may be an anomaly, and thus the data results for lead at this location may not be indicative of the total or dissolved groundwater metal concentration. An explanation for this may be that the total and dissolved sample bottles were inadvertently switched. Lead was detected at the off-site location at 4.4 µg/L. Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

4.9 Duplicate Samples

Field duplicate samples were collected to assess the precision of the field sampling activities. These samples were collected at a rate of 10% or at three locations. The locations of the duplicate samples were 653 Lakeview Drive, 4835 Uzzle Road, and 2202 Tilley Farm Road. The field duplicate results agree with the primary sample results, as both sample results for each location were consistent indicating quality control procedures were followed during the field activities of the sampling event.

4.10 Summary

The sampling event was an initial screening investigation conducted with the primary objective of identifying impacts to groundwater quality from DOD activities associated with Camp Butner. Twenty-three drinking wells were sampled representing approximately 10% of the drinking wells in the former Camp Butner area.

A total of 188 substances were analyzed at each location not including metals twice (total and dissolved). The results indicate a large number of substances were not detected. The results indicate only 9 substances were detected above the project screening levels which include: chloroform; bis(2-ethylhexyl)phthalate; alpha-chlordane; gamma-chlordane; heptachlor epoxide; perchlorate; iron; lead; and manganese. Evaluation of these substances indicates only perchlorate and lead may be present due to DOD activities at Camp Butner.

Perchlorate was detected in a random manner in the sample locations throughout the former Camp Butner area. Perchlorate was detected above the project screening level at two locations, which were from relatively shallow wells according to information provided by homeowners in Appendix A. All of the detections were below or within the current EPA human health guidance range for drinking water. Perchlorate is both a naturally occurring and man-made substance. Potential sources at the Camp Butner area may include munitions, flares, fertilizer application, and defoliant application. One homeowner participating in the investigation has confirmed the use of Bulldog Soda fertilizer at his residence. Bulldog Soda has been determined to contain naturally occurring perchlorate.

Lead was also detected in a random manner in the sample locations throughout the former Camp Butner area. Two detections were above the drinking water standard. Lead is likely to adsorb to sediment and these detections may be due to sediment in the sample. Lead was detected at the off-site location at 4.4 µg/L. Lead is naturally occurring, but rare. Other potential sources of lead at Camp Butner may include munitions, water supply piping, gasoline, vehicle exhaust, and paint containing lead.

5.0 DATA REVIEW

The analytical data was reviewed using the USACE Automated Data Review and Environmental Data Management System (version 5.0). The analytical data was reviewed in accordance with EPA National Functional Guidelines and EPA Region IV data review guidelines. The Data Review Report can be found in Appendix D.

The review process as presented in Appendix D concludes that the analytical data from this well sampling event for the Former Camp Butner is of acceptable quality. The overall quality of the data was determined to be acceptable with minimal qualification. There were no findings in this review that would prohibit the data from being considered usable for the intended purpose of this sampling effort.

6.0 RECOMMENDATIONS

The data set is limited as this was a screening investigation. At many sample locations, the well depth and specific hydrogeologic information was unknown. Therefore, it is impossible to compare the results with a high degree of confidence. The results do not identify any clear pattern or trend and the data is inconclusive whether DOD activities at Camp Butner have impacted the groundwater quality. However, the perchlorate and lead detections warrant further investigation. The Corps will continue to work with the State and community to determine what work should be included in subsequent investigations.

7.0 REFERENCES

B&V Waste Science and Technology Corporation (BVWST)/ U.S. Army Corps of Engineers (USACE), Savannah District. May 1992. *Site Investigation Report for the Camp Butner Landfill Site*.

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USACE, Rock Hill District. September 1993. *Archives Search Report, Findings for the Former Camp Butner*.

USACE. February 2001. *Requirements for the Preparation of Sampling and Analysis Plans*, EM 200-1-3.

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FIGURES

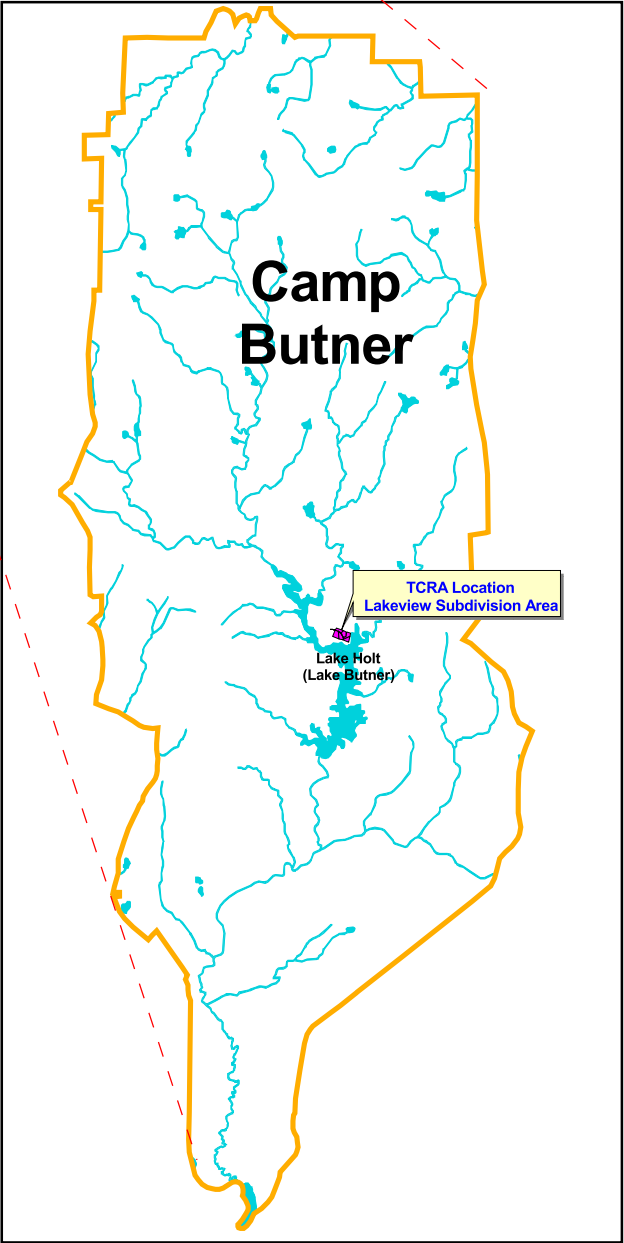
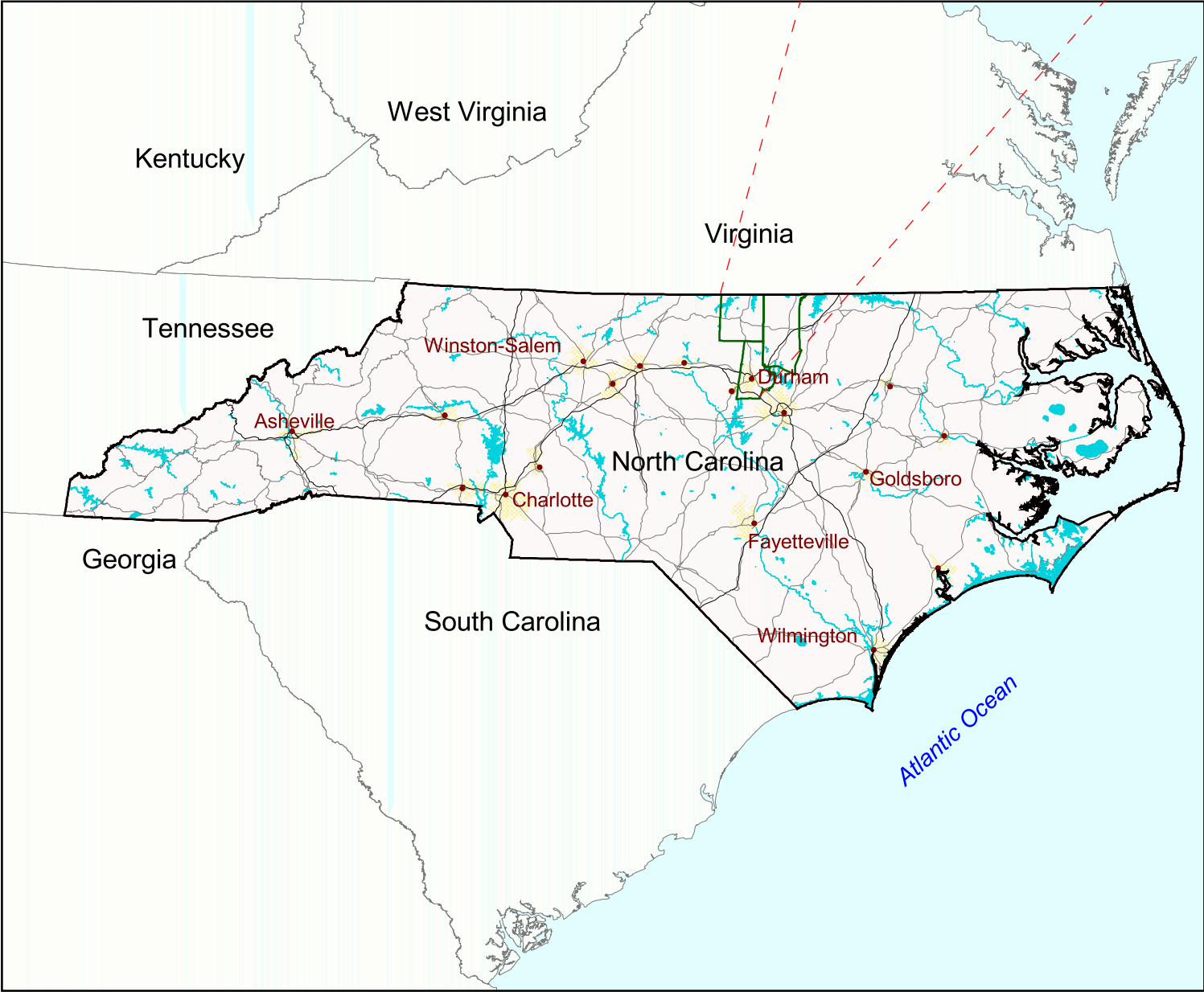
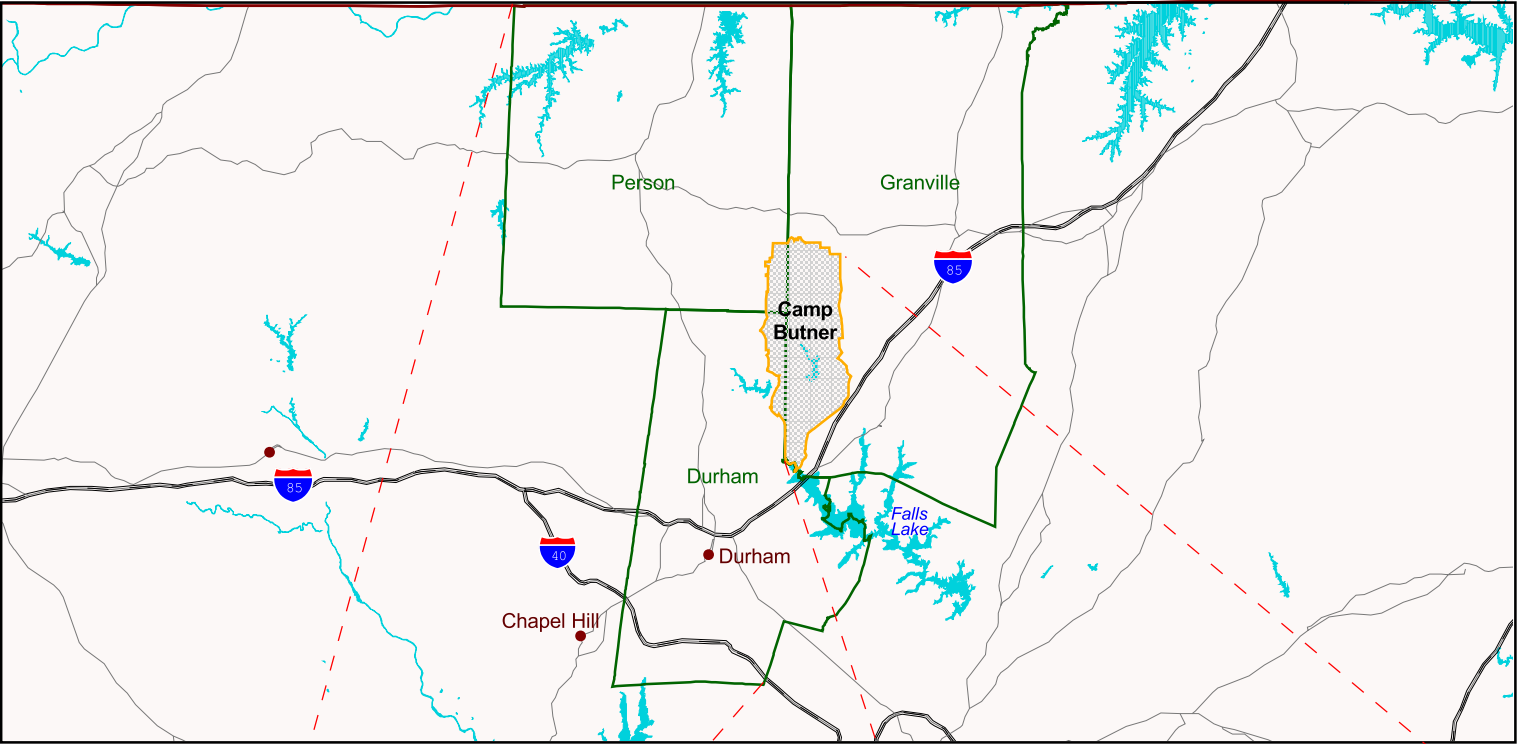


Figure 1
General Location Map

Former Camp Butner
Butner, NC

Legend

- Camp Butner Boundary
- Stream and Waterbody




PARSONS		U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE	
DESIGNED BY: BT	General Location Map		
DRAWN BY: BT			
CHECKED BY: DS	SCALE: NTS	PROJECT NUMBER: 742752	
SUBMITTED BY: DS	DATE: April 2004	PAGE NUMBER:	
FILE: x:\gis\738001\av_project\ TCRA_loc.apr			

Figure 2: Camp Butner Drinking Well Sample Locations

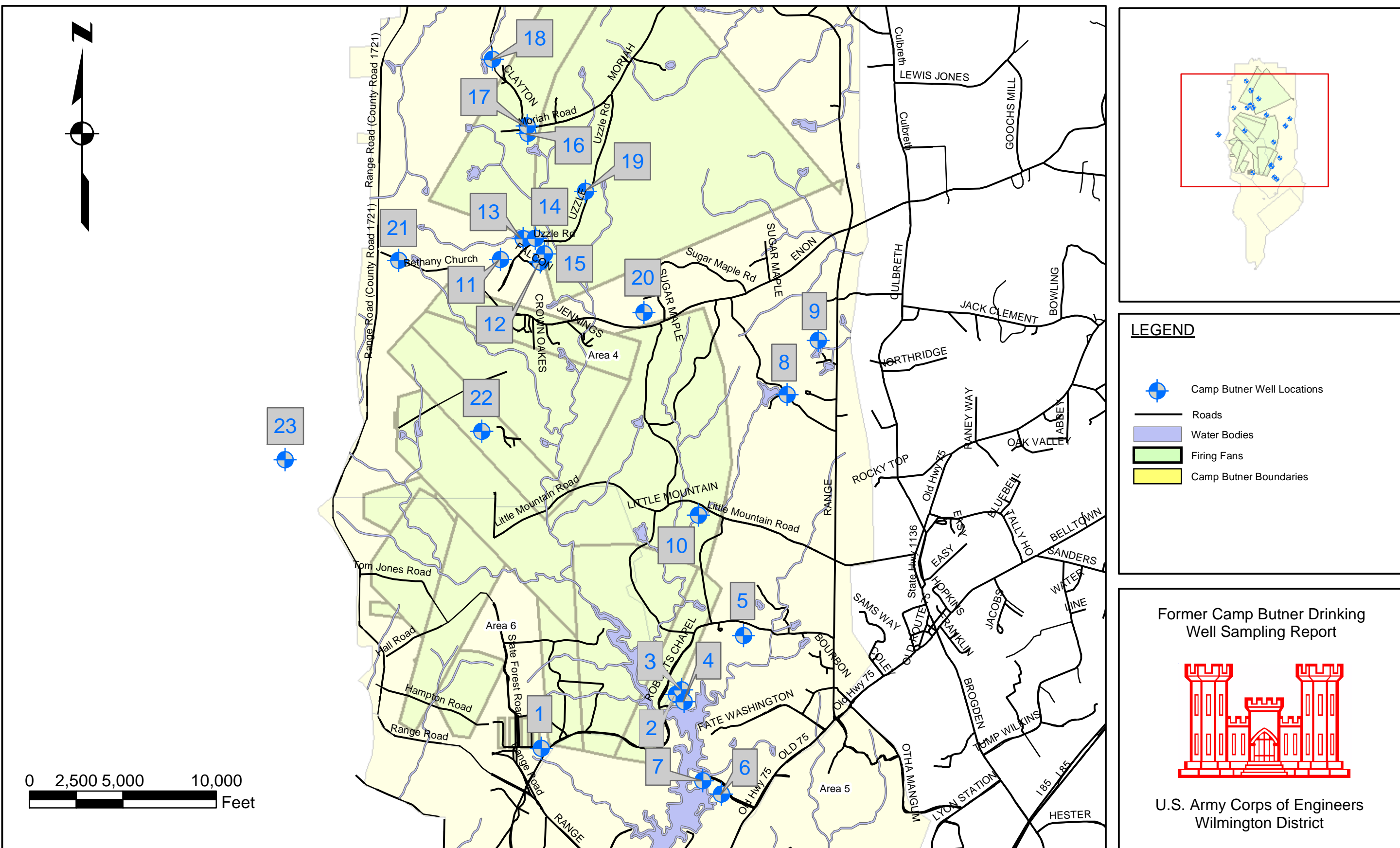
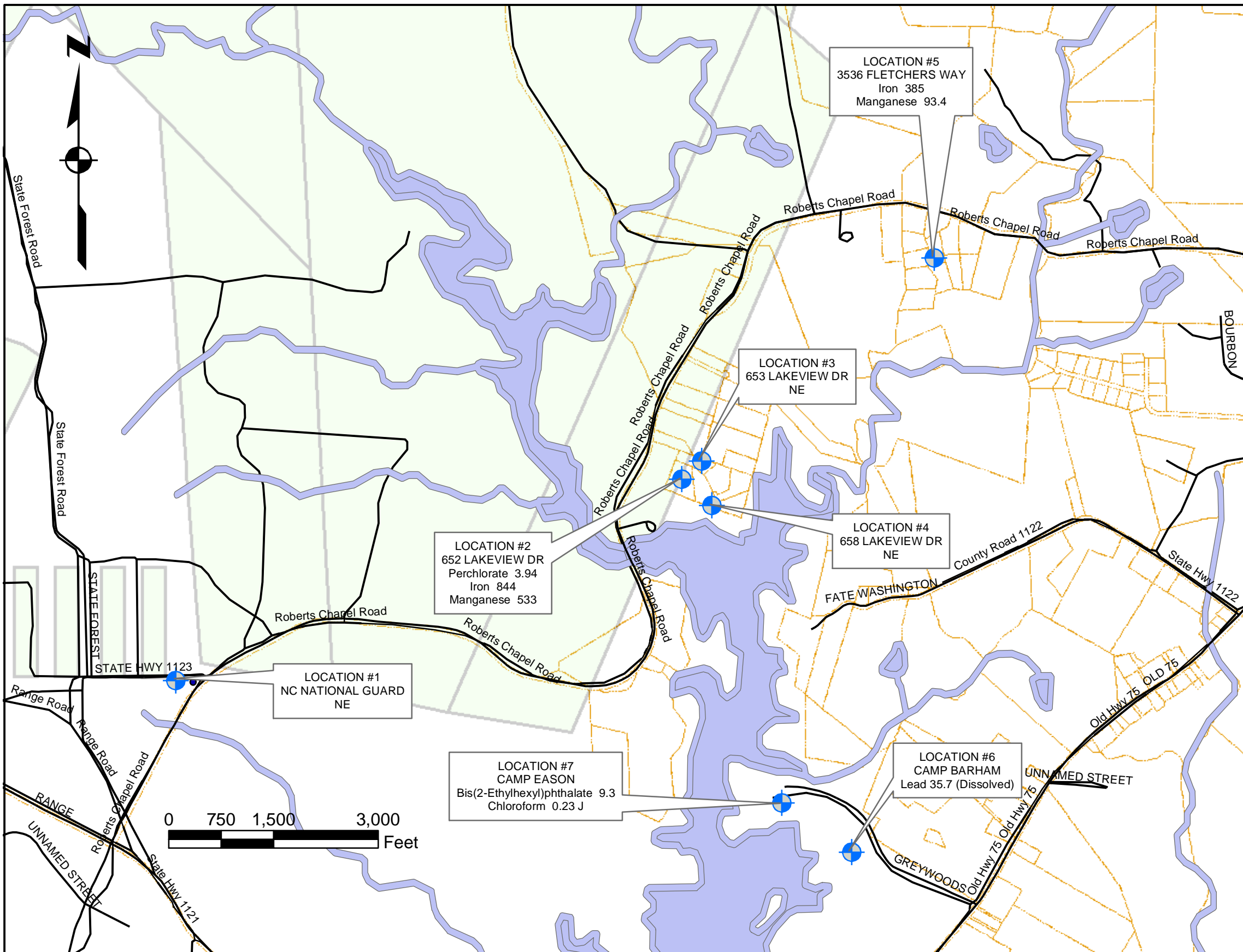


Figure 3: Project Screening Level Exceedances for Locations 1 through 7



LEGEND

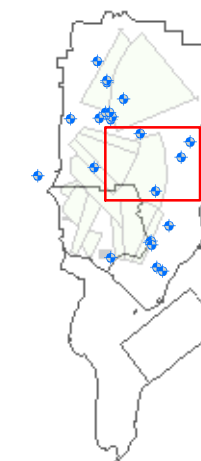
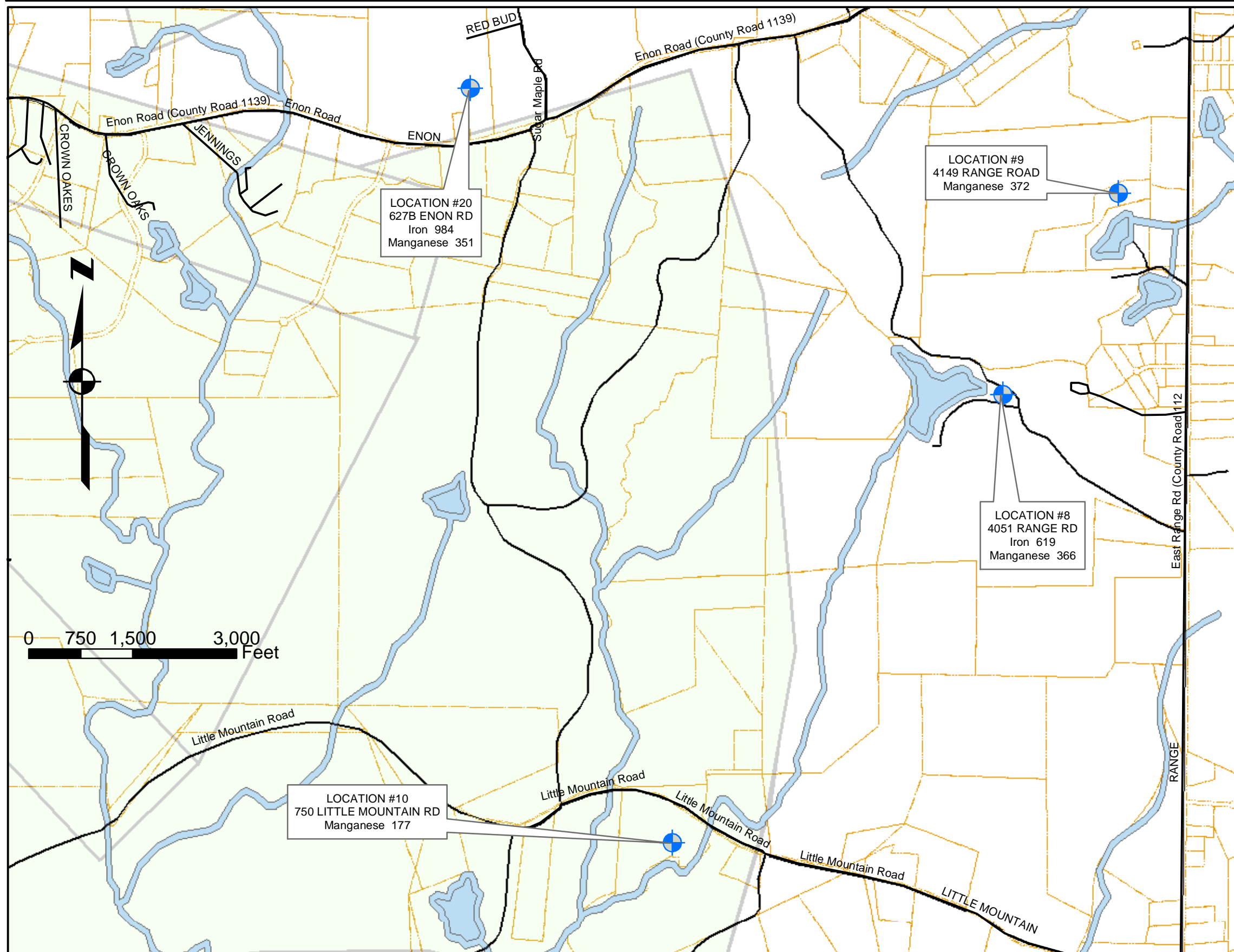
- Camp Butner Well Locations
- Roads
- Parcels
- Water Bodies
- Firing Fans

NOTES:
All Values are µg/L
NE - No Exceedances of Screening Criteria

Former Camp Butner Drinking Well Sampling Report

U.S. Army Corps of Engineers
Wilmington District

Figure 4: Project Screening Level Exceedances for Locations 8, 9, 10, and 20

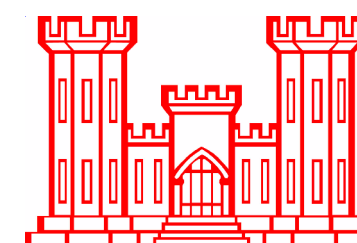


LEGEND

- Camp Butner Well Locations
- Roads
- Parcels
- Water Bodies
- Firing Fans

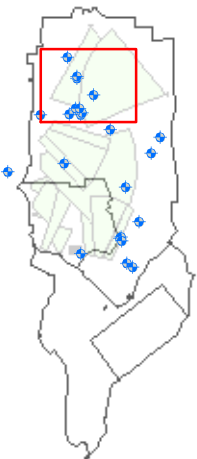
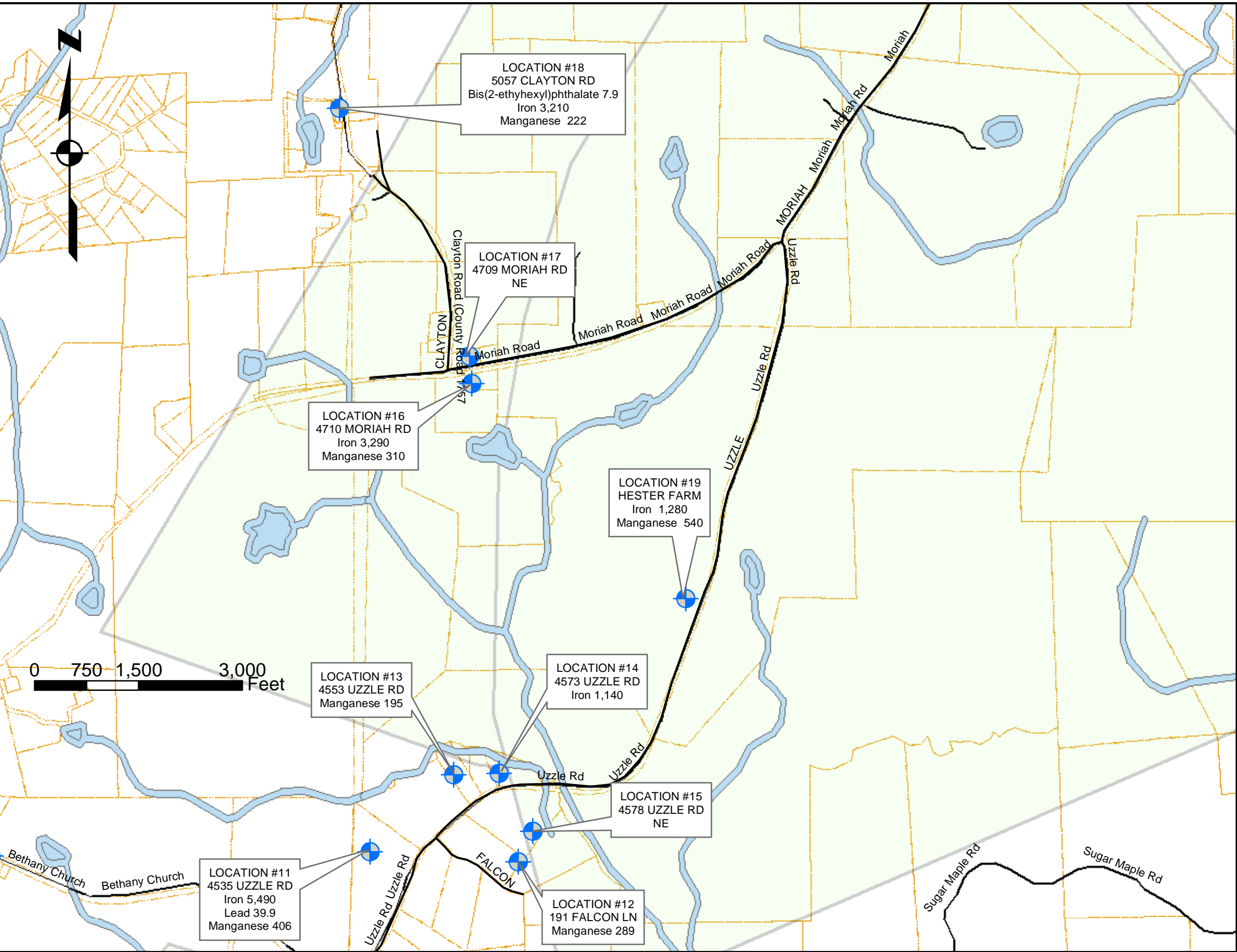
NOTES:
All values are $\mu\text{g/L}$
NE - No Exceedances of Screening Criteria

Former Camp Butner Drinking
Well Sampling Report



U.S. Army Corps of Engineers
Wilmington District

Figure 5: Project Screening Level Exceedances for Locations 11 through 19

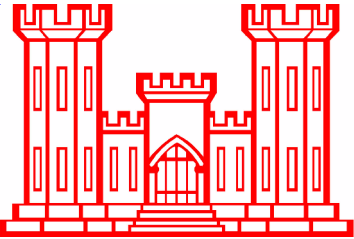


LEGEND

- Camp Butner Well Locations
- Roads
- Parcels
- Water Bodies
- Firing Fans

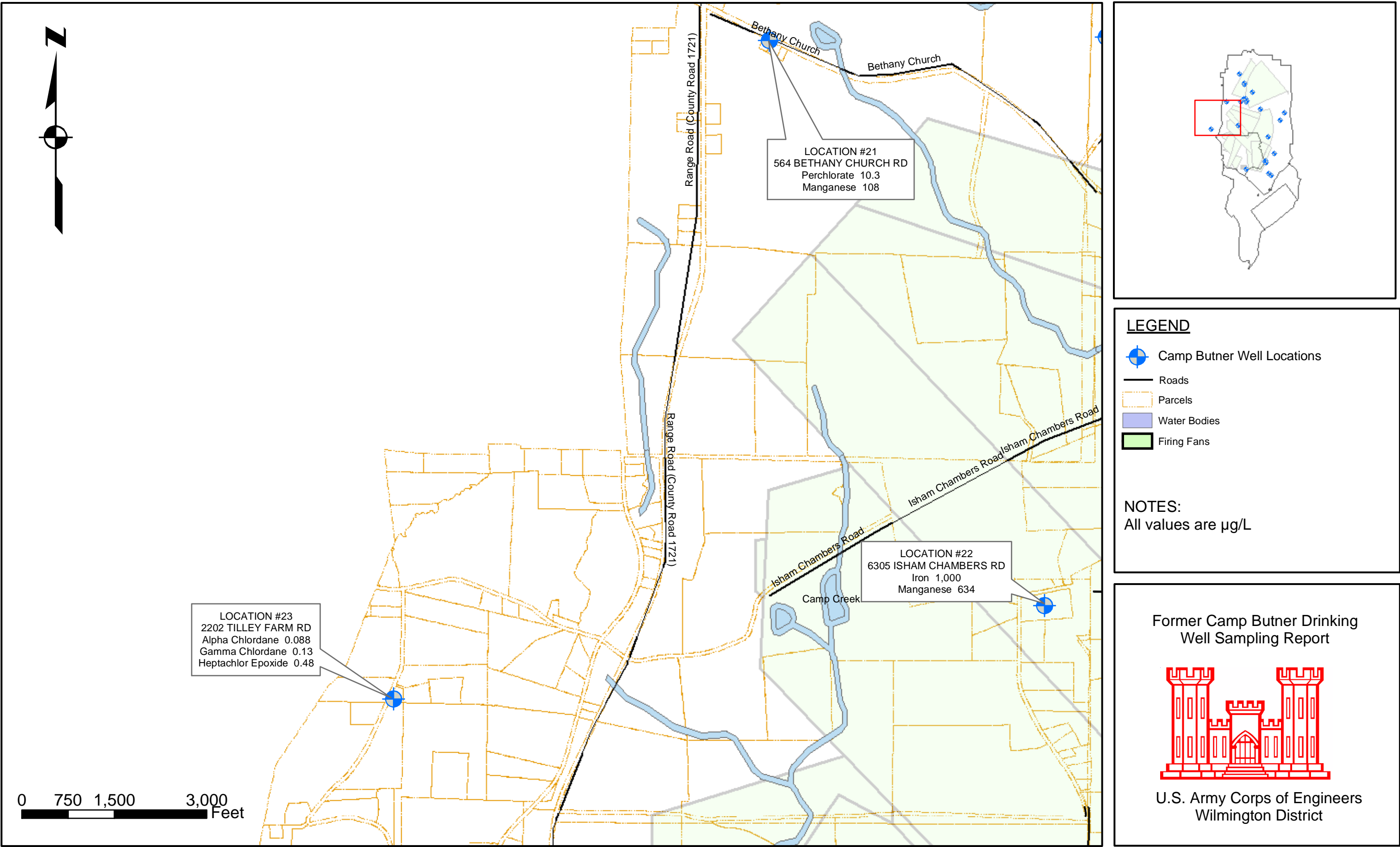
NOTES:
All values are $\mu\text{g/L}$
NE - No Exceedances of Screening Criteria

Former Camp Butner Drinking
Well Sampling Report



U.S. Army Corps of Engineers
Wilmington District

Figure 6: Project Screening Level Exceedances for Locations 21 through 23



TABLES

Table 1: SAMPLE LOCATION AND RATIONALE

NO.	ADDRESS	RATIONALE
1	NC National Guard Facility Stem, NC 27581	Within multiple firing fans.
2	652 Lakeview Dr. Stem, NC 27581	UXO present from EECA intrusive investigation
3	653 Lakeview Dr. Stem, NC 27851	UXO present during Non-TCRA and EECA investigation
4	658 Lakeview Dr. Stem, NC 27581	UXO present from EE/CA investigation
5	3536 Fletcher's Way Stem, NC 27581	Adjacent to firing fan and near OE scrap during EE/CA.
6	Camp Barham Barham-Eason Road Stem, NC 27581	Within range complex 1
7	Camp Eason Barham-Eason Road Stem, NC 27581	Within range complex 1
8	4051 Range Road Stem, NC 27581	Adjacent to UXO present during EE/CA (A4P3)
9	4149 Range Road Stem, NC 27581	UXO present during EE/CA (A4G 1439)
10	750 Little Mountain Road Stem, NC 27581	UXO present during EE/CA (A4G 0284) intrusive investigation and within multiple firing fans.
11	4535 Uzzle Road Rougemont, NC 27572	Near UXO finding 10 years ago and within firing fan.
12	191 Falcon Lane Rougemont, NC 27572	UXO finding 10 years ago and within firing fan.
13	4553 Uzzle Road Rougemont, NC 27572	Adjacent to UXO present during EE/CA and within firing fan.
14	4573 Uzzle Road Rougemont, NC 27572	Adjacent to UXO present during EE/CA (A4G 0020) and within multiple firing fans.
15	4578 Uzzle Road Rougemont, NC 27572	Recent Non-EE/CA UXO Finding and within firing fan.
16	4710 Moriah Road Rougemont, NC 27572	Adjacent to UXO present during EE/CA (A4G 0071) and within firing fans.
17	4709 Moriah Road Rougemont, NC 27572	Adjacent to UXO present during EE/CA (A4G 0071) and within firing fans.
18	5057 Clayton Road Rougemont, NC 27572	Near firing fan and OE scrap present during EE/CA
19	Hester Farm, Uzzle Road Rougemont, NC 27572	Adjacent to Recent UXO findings and within multiple firing fans.
20	627B Enon Road Oxford, NC 27575	OES present during EE/CA.
21	564 Bethany Church Rd Rougemont, NC 27572	OES present during EE/CA
22	6305 Isham Chambers Rd Rougemont, NC 27572	Within multiple firing fans and near OE scrap present during EE/CA
23	2202 Tilley Farm Road Rougemont, NC 27572	Offsite location to serve as a baseline for comparison to other locations

Table 2: SAMPLE COLLECTION INFORMATION

NO.	ADDRESS	SAMPLE COLLECTION DATE	SAMPLE IDENTIFICATION	WELL GPS COORDINATES
1	NC National Guard Facility Stem, NC 27581	August 9, 2004	RW-0804-NCNG	2060770 E 885556 N
2	652 Lakeview Dr. Stem, NC 27581	August 9, 2004	RW-0804-652-LakeviewDr	2068006 E 888444 N
3	653 Lakeview Dr. Stem, NC 27581	August 9, 2004	RW-0804-653-LakeviewDr	2068294 E 888702 N
4	658 Lakeview Dr. Stem, NC 27581	August 9, 2004	RW-0804-658-LakeviewDr	2068441 E 888075 N
5	3536 Fletcher's Way Stem, NC 27581	August 9, 2004	RW-0804-3536-Flethchers Way	2071621 E 891609 N
6	Camp Barham Barham-Eason Road Stem, NC 27581	August 10, 2004	RW-0804-CampBarham	2070437 E 883108 N
7	Camp Eason Barham-Eason Road Stem, NC 27581	August 10, 2004	RW-0804-CampEason	2069447 E 883818 N
8	4051 Range Road Stem, NC 27581	August 10, 2004	RW-0804-4051-RangeRd	2073958 E 904528 N
9	4149 Range Road Stem, NC 27581	August 10, 2004	RW-0804-4149-RangeRd	2075624 E 907432 N
10	750 Little Mountain Road Stem, NC 27581	August 10, 2004	RW-0804-750- LittleMountain	2069191 E 898063 N
11	4535 Uzzle Road Rougemont, NC 27572	August 11, 2004	RW-0804-4535-UzzleRd	2058580 E 911788 N
12	191 Falcon Lane Rougemont, NC 27572	August 10, 2004	RW-0804-191-FalconLane	2060727 E 911667 N
13	4553 Uzzle Road Rougemont, NC 27572	August 11, 2004	RW-0804-4553-UzzleRd	2059788 E 912903 N
14	4573 Uzzle Road Rougemont, NC 27572	August 11, 2004	RW-0804-4573-UzzleRd	2060443 E 912918 N
15	4578 Uzzle Road Rougemont, NC 27572	August 11, 2004	RW-0804-4578-UzzleRd	2060912 E 912082 N
16	4710 Moriah Road Rougemont, NC 27572	August 12, 2004	RW-0804-4710-MoriahRd	2060045 E 918545 N
17	4709 Moriah Road Rougemont, NC 27572	August 12, 2004	RW-0804-4709-MoriahRd	2060016 E 918941 N
18	5057 Clayton Road Rougemont, NC 27572	August 12, 2004	RW-0804-5057-ClaytonRd	2058138 E 922514 N
19	Hester Farm, Uzzle Road Rougemont, NC 27572	August 11, 2004	RW-0804-HesterFarm	2063131 E 915440 N
20	627B Enon Road Oxford, NC 27575	August 11, 2004	RW-0804-627B-EnonRd	2066264 E 908927 N
21	564 Bethany Church Rd Rougemont, NC 27572	August 12, 2004	RW-0804-564- BethanyChurch	2053111 E 911731 N
22	6305 Isham Chambers Rd Rougemont, NC 27572	August 12, 2004	RW-0804-6305- IshamChambers	2057578 E 902561 N
23	2202 Tilley Farm Road Rougemont, NC 27572	August 12, 2004	RW-0804-2202- TilleyFarmRd	2047013 E 901047 N

Footnote: NAD 83 NC State Plane Grid in feet

Table 3: ANALYTICAL METHODS

PARAMETER	ANALYTICAL METHOD
Target Compound List (TCL) VOCs	SW 846 5030B/8260B
TCL SVOCs	SW 846 3520C/8270C
Pesticides/PCBs	SW 846 3520C/8081A
Herbicides	SW 846 3520C/8151A
Explosives	SW 846 8330
Nitroglycerin	SW 846 8332
Perchlorate	SW 846 8321mod
Cyanide	SW 846 9012A or 9014
Target Analyte List (TAL) Total Metals	SW 846 3020A/6010B/7470A/6020
TAL Dissolved Metals	SW 846 3020A/6010B/7470A

Table 4: PROJECT SCREENING LEVELS

Volatile Organic Compounds (VOCs)	NC (a) µg/L	Federal MCL (b) µg/L	Region 9 Tap Water PRG (c) µg/L	Screening Level µg/L
1,1,1-Trichloroethane	200	200	3,200	200
1,1,2,2-Tetrachloroethane	0.17 (I)	NA	0.055	0.17
1,1,2-Trichloro-1,2,2-trifluoroethane	210,000	NA	59,000	210,000
1,1,2-Trichloroethane	NA	5	0.2	5
1,1-Dichloroethane	700	NA	810	700
1,1-Dichloroethene	7	7	340	7
1,2,3-Trichlorobenzene	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70 (I)	70	190	70
1,2-Dibromo-3-chloropropane	0.025	0.2	0.048	0.025
1,2-Dibromoethane	0.0004	0.05	0.00076	0.0004
1,2-Dichlorobenzene	620	600	370	600
1,2-Dichloroethane	0.38	5	0.12	0.38
1,2-Dichloropropane	0.56	5	0.16	0.56
1,3-Dichlorobenzene	620	NA	5.5	620
1,4-Dichlorobenzene	75	75	0.5	75
1,4-Dioxane	7	NA	6.1	7
2-Butanone	170	NA	1,900	170
2-Hexanone	280 (I)	NA	NA	280
4-Methyl-2-pentanone	NA	NA	160	160
Acetone	700	NA	610	700
Benzene	1	5	0.34	1
Bromochloromethane	NA	NA	NA	NA
Bromodichloromethane	0.56	80T	0.18	0.56
Bromoform	0.19	80T	8.5	0.19
Bromomethane	NA	NA	8.7	8.7
Carbon Disulfide	700	NA	1,000	700
Carbon tetrachloride	0.3	5	0.17	0.3
Chlorobenzene	50	100	110	50
Chloroethane	2,800	NA	4.6	2,800
Chloroform	0.19	80T	6.2	0.19
Chloromethane	2.6	NA	1.5	2.6
cis-1,2-Dichloroethene	70	70	61	70
cis-1,3-Dichloropropene	0.19 (total)	NA	0.4	0.19 (total)
Cyclohexane	NA	NA	35,000	35,000
Dibromochloromethane	0.41 (I)	80T	0.13	0.41
Dichlorodifluoromethane	1400	NA	390	1400
Ethylbenzene	29	700	2.9	29
Isopropylbenzene	70	NA	660	70
m,p-Xylene	530	10,000	210	530 (total)
Methyl acetate	NA	NA	6100	6100
Methyl tert-butyl ether	200	NA	13	200
Methylcyclohexane	NA	NA	NA	NA
Methylene chloride	5	5	4.3	5
o-Xylene	530	10,000	210	530
Styrene	100	100	1,600	100
Tetrachloroethene	0.7	5	0.66	0.7
Toluene	1,000	1,000	720	1,000
trans-1,2-Dichloroethene	70	100	120	70
trans-1,3-Dichloropropene	0.19 (total)	NA	0.4	0.19 (total)
Trichloroethene	2.8	5	0.028	2.8
Trichlorofluoromethane	2100	NA	1300	2100
Vinyl chloride	0.015	2	0.02	0.015
Xylene (total)	530	10,000	210	530

Table 4: PROJECT SCREENING LEVELS

Semi-volatile Organic Compounds (SVOCs)	NC (a) µg/L	Federal MCL (b) µg/L	Region 9 Tap Water PRG (c) µg/L	Screening Level µg/L
1,1'-Biphenyl	NA	NA	300	300
1,2,4,5-Tetrachlorobenzene	NA	NA	11	11
2,2'-Oxybis(1-chloropropane)2	NA	NA	0.27	0.27
2,3,4,6-Tetrachlorophenol	210	NA	1100	210
2,4,5-Trichlorophenol	NA	NA	3,600	3,600
2,4,6-Trichlorophenol	NA	NA	3.6	3.6
2,4-Dichlorophenol	NA	NA	110	110
2,4-Dimethylphenol	140	NA	730	140
2,4-Dinitrophenol	NA	NA	73	73
2,4-Dinitrotoluene	NA	NA	73	73
2,6-Dinitrotoluene	NA	NA	36	36
2-Chloronaphthalene	NA	NA	490	490
2-Chlorophenol	0.1	NA	30	0.1
2-Methylnaphthalene	14	NA	NA	14
2-Methylphenol	NA	NA	1800	1800
2-Nitroaniline	NA	NA	1	1
2-Nitrophenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	0.15	0.15
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA
4-Chloro-3-methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	150	150
4-Chlorophenyl-phenyl ether	NA	NA	NA	NA
4-Methylphenol	3.5	NA	180	3.5
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
Acenaphthene	80	NA	370	80
Acenaphthylene	210	NA	NA	210
Acetophenone	NA	NA	NA	NA
Anthracene	2,100	NA	1,800	2,100
Atrazine	3	3	0.3	3
Benzaldehyde	NA	NA	3600	3600
Benzo(a)anthracene	0.0479	NA	0.092	0.0479
Benzo(a)pyrene	0.00479	0.2	0.0092	0.00479
Benzo(b)fluoranthene	0.0479	NA	0.092	0.0479
Benzo(g,h,i)perylene	210	NA	NA	210
Benzo(k)fluoranthene	0.479	NA	0.92	0.479
Bis(2-chloroethoxy) methane	NA	NA	NA	NA
Bis-(2-chloroethyl) ether	0.031 (I)	NA	0.0098	0.031
Bis(2-ethylhexyl)phthalate	3	6	4.8	3
Butylbenzylphthalate	100	NA	7,300	100
Caprolactam	3500	NA	18,000	3500
Carbazole	NA	NA	3.4	3.4
Chrysene	4.79	NA	9.2	4.79
Dibenzo(a,h)-anthracene	0.0047	NA	0.0092	0.0047
Dibenzofuran	28 (I)	NA	24	28
Diethylphthalate	5000	NA	29,000	5000
Dimethylphthalate	NA	NA	360,000	360,000
Di-n-butylphthalate	700	NA	3600	700
Di-n-octylphthalate	140	NA	1500	140
Fluoranthene	280	NA	1,500	280
Fluorene	280	NA	240	280
Hexachlorobenzene	0.02	1	0.042	0.02
Hexachlorobutadiene	0.44 (I)	NA	0.86	0.44
Hexachlorocyclo-pentadiene	NA	50	220	50
Hexachloroethane	NA	NA	4.8	4.8

Table 4: PROJECT SCREENING LEVELS

CAS No.	SVOCs (cont.)	NC (a) µg/L	Federal MCL (b) µg/L	Region 9 Tap Water PRG (c) µg/L	Screening Level µg/L
193-39-5	Indeno(1,2,3-cd)-pyrene	0.0479	NA	0.092	0.0479
78-59-1	Isophorone	36.8	NA	71	36.8
91-20-3	Naphthalene	21	NA	6.2	21
98-95-3	Nitrobenzene	NA	NA	3.4	3.4
621-64-7	N-Nitroso-di-npropylamine	NA	NA	0.0096	0.0096
86-30-6	N-Nitrosodiphenylamine	NA	NA	14	14
87-86-5	Pentachlorophenol	0.3	1	0.56	0.3
85-01-8	Phenanthrene	210	NA	NA	210
108-95-2	Phenol	300	NA	22,000	300
129-00-0	Pyrene	210	NA	180	210
Pesticides					
72-54-8	4,4'-DDD	0.14	NA	0.28	0.14
72-55-9	4,4'-DDE	NA	NA	0.2	0.2
50-29-3	4,4'-DDT	0.1	NA	0.2	0.1
309-00-2	Aldrin	NA	NA	0.0043	0.0043
319-84-6	alpha-BHC	0.019(total)	NA	0.011	0.019 (total)
5103-71-9	alpha-Chlordane	0.027	NA	NA	0.027 (total)
319-85-7	beta-BHC	0.019(total)	NA	0.037	0.019 (total)
319-86-8	delta-BHC	0.019(total)	NA	NA	0.019 (total)
60-57-1	Dieldrin	0.0022	NA	0.0042	0.0022
959-98-8	Endosulfan I	NA	NA	NA	NA
33213-65-9	Endosulfan II	42	NA	NA	42
1031-07-8	Endosulfan sulfate	NA	NA	NA	NA
72-20-8	Endrin	2 (total)	2	11	2 (total)
7421-93-4	Endrin aldehyde	2 (total)	NA	NA	2 (total)
53494-70-5	Endrin ketone	2 (total)	NA	NA	2 (total)
58-89-9	gamma-BHC (Lindane)	0.2	0.2	0.052	0.2
5103-74-2	gamma-Chlordane	0.027 (total)	NA	NA	0.027 (total)
76-44-8	Heptachlor	0.008	0.4	0.015	0.008
1024-57-3	Heptachlor epoxide	0.004	0.2	0.0074	0.004
72-43-5	Methoxychlor	35	40	180	35
8001-35-2	Toxaphene	0.031	3	0.061	0.031
PCBs					
12674-11-2	Aroclor 1016	NA	0.5	0.96	0.5
11104-28-2	Aroclor 1221	NA	0.5	0.034	0.5
11141-16-5	Aroclor 1232	NA	0.5	0.034	0.5
53469-21-9	Aroclor 1242	NA	0.5	0.034	0.5
12672-29-6	Aroclor 1248	NA	0.5	0.034	0.5
11097-69-1	Aroclor 1254	NA	0.5	0.034	0.5
11096-82-5	Aroclor 1260	NA	0.5	0.034	0.5
37324-23-5	Aroclor 1262	NA	0.5	0.034	0.5
11100-14-4	Aroclor 1268	NA	0.5	0.034	0.5
Herbicides					
93-76-5	2,4,5-T	NA	NA	360	360
93-72-1	2,4,5-TP (Silvex)	50	50	290	50
94-75-1	2,4-D	70	70	360	70

Table 4: PROJECT SCREENING LEVELS

CAS No.	Explosives	NC (a) µg/L	Federal MCL (b) µg/L	Region 9 Tap Water PRG (c) µg/L	Screening Level µg/L
99-35-4	1,3,5-Trinitrobenzene (1,3,5-TNB)	NA	NA	1,100	1,100
99-65-0	1,3-Dinitrobenzene (1,3-DNB)	NA	NA	3.6	3.6
118-96-7	2,4,6-Trinitrotoluene (2,4,6-TNT)	NA	NA	2.2	2.2
121-14-2	2,4-Dinitrotoluene (2,4-DNT)	NA	NA	73	73
606-20-2	2,6-Dinitrotoluene (2,6-DNT)	NA	NA	36	36
355-72-78-2	2-Amino-4,6-dinitrotoluene (2-AM-DNT)	NA	NA	NA	NA
88-72-2	2-Nitrotoluene (O-NITROTOLUENE)	NA	NA	61	61
99-08-1	3-Nitrotoluene (M-NITROTOLUENE)	NA	NA	61	61
1946-51-0	4-Amino-2,6-dinitrotoluene (4-AM-DNT)	NA	NA	NA	NA
99-99-0	4-Nitrotoluene (P-NITROTOLUENE)	NA	NA	61	61
121-82-4	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	NA	NA	0.61	0.61
479-45-8	Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	NA	NA	360	360
98-95-3	Nitrobenzene (NB)	NA	NA	3.4	3.4
2691-41-0	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	NA	NA	1800	1800
55-63-0	Nitroglycerine	NA	NA	4.8	4.8
Perchlorate					
14797-73-0	Perchlorate	NA	NA	3.6	3.6
Metals *					
7429-90-5	Aluminum	NA	200 (s)	36,000	36,000
7440-36-0	Antimony	NA	6	15	6
7440-38-2	Arsenic	10	10	0.045	10
7440-39-3	Barium	2,000	2,000	2,600	2,000
7440-41-7	Beryllium	NA	4	73	4
7440-43-9	Cadmium	5	5	18	5
7440-70-2	Calcium	NA	NA	NA	NA
7440-47-3	Chromium	50	100	110	50
7440-48-4	Cobalt	NA	NA	730	730
7440-50-8	Copper	1000	1000 (s)	1,500	1000
7439-89-6	Iron	300	300(s)	11,000	300
7439-92-1	Lead	15	15 (al)	NA	15
7439-95-4	Magnesium	NA	NA	NA	NA
7439-96-5	Manganese	50	50(s)	880	50
7439-97-6	Mercury	1.1	2	11	1.1
7440-02-0	Nickel	100	NA	730	100
7440-09-7	Potassium	NA	NA	NA	NA
7782-49-2	Selenium	50	50	180	50
7440-22-4	Silver	18	100 (s)	180	18
7440-23-5	Sodium	NA	NA	NA	NA
7440-28-0	Thallium	NA	2	2.4	2
7440-62-2	Vanadium	NA	NA	260	260
7440-66-6	Zinc	2,100	5,000 (s)	11,000	2,100
57-12-5	Cyanide	154	200	730	154

* Site background results may be used as the project screening level if determined appropriate by the project team

NOTES:

(a) - North Carolina groundwater quality standards in 15A NCAC 02L.0202

(b) - Federal Maximum Contaminant Levels (MCLs) in 40 CFR 141.61 and 141.62

(c) - Environmental Protection Agency (EPA) Region 9 Preliminary Remediation Goals (PRGs) (dated October 1, 2002) found at <http://www.epa.gov/region09/waste/sfund/prg/index.htm>

CAS No. - Chemical Abstracts Service Registry Number

µg/L - micrograms/Liter

NA- Not available

s- Secondary MCL

al- Action Level

I - NC Interim Standard

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-NCNG	RW0804-652-LAKEVIEWDR	RW0804-653-LAKEVIEWDR	RW0804-FIELDDUP1 (b)
				8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Volatile Organic Compounds (VOCs)							
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)							
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	1,4-Dioxane	7	µg/L	2.2 UJ	2.5 UJ	2.4 UJ	2.1 UJ
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4-Dichlorophenol	110	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4-Dimethylphenol	140	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2,4-Dinitrophenol	73	µg/L	22 U	25 U	24 U	21 U
8270C	2,4-Dinitrotoluene	73	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	2,6-Dinitrotoluene	36	µg/L	2.2 U	2.5 U	2.4 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-NCNG	RW0804-652- LAKEVIEWDR	RW0804-653- LAKEVIEWDR	RW0804- FIELDDUPI (b)
				8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
SVOCs (cont.)							
8270C	2-Chloronaphthalene	490	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Chlorophenol	0.1	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	22 U	25 U	24 U	21 U
8270C	2-Methylnaphthalene	14	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	2-Methylphenol	1,800	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Nitroaniline	1	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	2-Nitrophenol	NA	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	3-Nitroaniline	NA	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Chloroaniline	150	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	4-Nitroaniline	NA	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	4-Nitrophenol	NA	µg/L	22 U	25 U	24 U	21 U
8270C	Acenaphthene	80	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Acenaphthylene	210	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Acetophenone	NA	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Anthracene	2,100	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Atrazine	3	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Benzaldehyde	3,600	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Biphenyl	300	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Butylbenzyl phthalate	100	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Caprolactam	3,500	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Carbazole	3.4	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Chrysene	4.79	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dibenzofuran	28	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Diethyl phthalate	5,000	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Dimethyl phthalate	360,000	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Di-n-butyl phthalate	700	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Di-n-octyl phthalate	140	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Fluoranthene	280	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Fluorene	280	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Hexachlorobenzene	0.02	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Hexachlorobutadiene	0.44	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Hexachlorocyclopentadiene	50	µg/L	22 U	25 U	24 U	21 U
8270C	Hexachloroethane	4.8	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Isophorone	36.8	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Naphthalene	21	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Nitrobenzene	3.4	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Phenanthrene	210	µg/L	2.2 U	2.5 U	2.4 U	2.1 U
8270C	Phenol	300	µg/L	5.6 U	6.3 U	6.1 U	5.2 U
8270C	Pyrene	210	µg/L	2.2 U	2.5 U	2.4 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-NCNG	RW0804-652-LAKEVIEWDR	RW0804-653-LAKEVIEWDR	RW0804-FIELDUP1 (b)
Sample Date/Time:				8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
Matrix:				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Pesticides/PCBs							
8081A	4,4'-DDD	0.14	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	4,4'-DDE	0.2	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	4,4'-DDT	0.1	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Aldrin	0.0043	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	alpha-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	alpha-Chlordane	0.027	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	beta-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	delta-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Dieldrin	0.0022	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endosulfan I	NA	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endosulfan II	42	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endosulfan sulfate	NA	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endrin	2	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endrin aldehyde	2	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Endrin ketone	2	µg/L	0.053 UJ	0.053 UJ	0.058 UJ	0.06 UJ
8081A	gamma-BHC	0.2	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	gamma-Chlordane	0.027	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Heptachlor	0.008	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Heptachlor epoxide	0.004	µg/L	0.021 UJ	0.021 UJ	0.023 UJ	0.024 UJ
8081A	Methoxychlor	35	µg/L	0.053 UJ	0.053 UJ	0.058 UJ	0.06 UJ
8081A	Toxaphene	0.031	µg/L	0.26 U	0.27 U	0.29 U	0.3 U
8082	Aroclor 1016	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1221	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1232	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1242	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1248	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1254	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1260	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1262	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
8082	Aroclor 1268	0.5	µg/L	0.53 U	0.53 U	0.58 U	0.6 U
Herbicides							
8151A	2,4,5-T	360	µg/L	0.23 U	0.22 U	0.22 U	0.23 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.17 U	0.16 U	0.17 U	0.17 U
8151A	Pentachlorophenol	0.3	µg/L	0.17 U	0.16 U	0.17 U	0.17 U
Explosives/Nitroglycerin							
8330	1,3,5-Trinitrobenzene	1,100	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	1,3-Dinitrobenzene	3.6	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,4-Dinitrotoluene	73	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2,6-Dinitrotoluene	36	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	2-Nitrotoluene	61	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	3-Nitrotoluene	61	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	4-Nitrotoluene	61	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Nitrobenzene	3.4	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	0.22 U	0.22 U	0.21 U	0.22 U
8332	Nitroglycerine	4.8	µg/L	2.2 U	2.2 U	2.1 U	2.2 U
Perchlorate							
8321M	Perchlorate	3.6	µg/L	0.294	3.94	0.335	0.291

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-NCNG	RW0804-652- LAKEVIEWDR	RW0804-653- LAKEVIEWDR	RW0804- FIELDDUP1 (b)
				8/9/2004 12:30:00 PM	8/9/2004 1:50:00 PM	8/9/2004 3:25:00 PM	8/9/2004 3:25:00 PM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Total Metals							
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	200 U	18.9 J	200 U	200 U
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	34,500	6,430	11,800	11,700
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	131	9 J	11.1 J	10.2 J
6010B	Iron, Total	300	µg/L	100 U	844	100 U	100 U
6010B	Lead, Total	15	µg/L	14.8	3 U	8.2	7.1
6010B	Magnesium, Total	NA	µg/L	9,100	1,440 J	3,420 J	3,380 J
6010B	Manganese, Total	50	µg/L	4.7 UJ	533	8.2 UJ	8 UJ
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.15 J
6010B	Nickel, Total	100	µg/L	40 U	40 U	3.7 J	2.1 UJ
6010B	Potassium, Total	NA	ug/L	595 J	1,050 J	5,000 U	5,000 U
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	10,900	7,560	11,000	11,200
6020	Thallium, Total	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	µg/L	364	958	10.5 J	10.5 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals							
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	4.4 UJ	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	µg/L	200 U	18 J	200 U	200 U
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	34,600	6,340	11,100	11,400
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	25 U	5 J	5.2 J	4.6 J
6010B	Iron, Dissolved	300	µg/L	100 U	100 U	100 U	100 U
6010B	Lead, Dissolved	15	µg/L	2.8 J	3 U	3 U	2.9 J
6010B	Magnesium, Dissolved	NA	µg/L	9,220	1,440 J	3,250 J	3,350 J
6010B	Manganese, Dissolved	50	µg/L	4.1 UJ	516	5.2 UJ	5.4 UJ
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.092 J	0.2 U
6010B	Nickel, Dissolved	100	µg/L	40 U	40 U	4.4 J	3 UJ
6010B	Potassium, Dissolved	NA	ug/L	623 J	1,060 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	11,200	7,510	10,600	10,900
6020	Thallium, Dissolved	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	275	925	11.1 J	10.6 J

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON
				8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Volatile Organic Compounds (VOCs)							
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 UJ	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U	0.23 J
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 UJ	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)							
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	1,4-Dioxane	7	µg/L	2 UJ	2.1 UJ	2.1 UJ	2.2 UJ
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4-Dichlorophenol	110	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4-Dimethylphenol	140	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2,4-Dinitrophenol	73	µg/L	20 U	21 U	21 U	22 U
8270C	2,4-Dinitrotoluene	73	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	2,6-Dinitrotoluene	36	µg/L	2 U	2.1 U	2.1 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON
				8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
SVOCs (cont.)							
8270C	2-Chloronaphthalene	490	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Chlorophenol	0.1	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	20 U	21 U	21 U	22 U
8270C	2-Methylnaphthalene	14	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	2-Methylphenol	1,800	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Nitroaniline	1	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	2-Nitrophenol	NA	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	3-Nitroaniline	NA	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Chloroaniline	150	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	4-Nitroaniline	NA	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	4-Nitrophenol	NA	µg/L	20 U	21 U	21 U	22 U
8270C	Acenaphthene	80	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Acenaphthylene	210	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Acetophenone	NA	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Anthracene	2,100	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Atrazine	3	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Benzaldehyde	3,600	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Biphenyl	300	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2 U	2.1 U	2.1 U	9.3
8270C	Butylbenzyl phthalate	100	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Caprolactam	3,500	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Carbazole	3.4	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Chrysene	4.79	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dibenzofuran	28	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Diethyl phthalate	5,000	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Dimethyl phthalate	360,000	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Di-n-butyl phthalate	700	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Di-n-octyl phthalate	140	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Fluoranthene	280	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Fluorene	280	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Hexachlorobenzene	0.02	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Hexachlorobutadiene	0.44	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Hexachlorocyclopentadiene	50	µg/L	20 U	21 U	21 U	22 U
8270C	Hexachloroethane	4.8	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Isophorone	36.8	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Naphthalene	21	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Nitrobenzene	3.4	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Phenanthrene	210	µg/L	2 U	2.1 U	2.1 U	2.2 U
8270C	Phenol	300	µg/L	5 U	5.3 U	5.3 U	5.5 U
8270C	Pyrene	210	µg/L	2 U	2.1 U	2.1 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: <div>RW0804-658-LAKEVIEWDR</div>				RWB0804-3536-FLETCHERSWAY	RW0804-CAMPBARHAM	RW0804-CAMPEASON	
Sample Date/Time:				8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
Matrix:				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Pesticides/PCBs							
8081A	4,4'-DDD	0.14	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	4,4'-DDE	0.2	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	4,4'-DDT	0.1	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Aldrin	0.0043	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	alpha-BHC	0.019	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	alpha-Chlordane	0.027	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	beta-BHC	0.019	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	delta-BHC	0.019	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Dieldrin	0.0022	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan I	NA	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan II	42	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endosulfan sulfate	NA	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin	2	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin aldehyde	2	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Endrin ketone	2	µg/L	0.056 UJ	0.054 UJ	0.055 UJ	0.053 UJ
8081A	gamma-BHC	0.2	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	gamma-Chlordane	0.027	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Heptachlor	0.008	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Heptachlor epoxide	0.004	µg/L	0.022 UJ	0.022 UJ	0.022 UJ	0.021 UJ
8081A	Methoxychlor	35	µg/L	0.056 UJ	0.054 UJ	0.055 UJ	0.053 UJ
8081A	Toxaphene	0.031	µg/L	0.28 U	0.27 U	0.27 U	0.27 U
8082	Aroclor 1016	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1221	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1232	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1242	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1248	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1254	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1260	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1262	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
8082	Aroclor 1268	0.5	µg/L	0.56 U	0.54 U	0.55 U	0.53 U
Herbicides							
8151A	2,4,5-T	360	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
8151A	Pentachlorophenol	0.3	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Explosives/Nitroglycerin							
8330	1,3,5-Trinitrobenzene	1,100	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	1,3-Dinitrobenzene	3.6	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,4,6-Trinitrotoluene	2.2	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,4-Dinitrotoluene	73	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2,6-Dinitrotoluene	36	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	2-Nitrotoluene	61	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	3-Nitrotoluene	61	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	4-Nitrotoluene	61	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	Nitrobenzene	3.4	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	0.21 U	0.22 UJ	0.22 UJ	0.25 UJ
8332	Nitroglycerine	4.8	µg/L	2.1 U	2.2 U	2.2 UJ	2.5 UJ
Perchlorate							
8321M	Perchlorate	3.6	µg/L	0.254	0.05 U	0.227 J	0.504

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-658- LAKEVIEWDR	RWB0804-3536- FLETCHERSWAY	RW0804- CAMPBARHAM	RW0804- CAMPEASON
				8/9/2004 4:40:00 PM	8/9/2004 5:35:00 PM	8/10/2004 9:05:00 AM	8/10/2004 10:50:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Total Metals							
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	5.2 J	8.5 J	200 U	200 U
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	35,000	5,780	23,500	10,200
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U	0.92 UJ
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	25 U	6.3 J	16.5 J	25
6010B	Iron, Total	300	µg/L	179 U	385	100 U	100 U
6010B	Lead, Total	15	µg/L	3 U	3 U	8.2	12.1
6010B	Magnesium, Total	NA	µg/L	5,600	3,560 J	5,310	4,060 J
6010B	Manganese, Total	50	µg/L	19	93.4	15 U	2.8 UJ
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	µg/L	40 U	2.2 UJ	40 U	40 U
6010B	Potassium, Total	NA	ug/L	849 J	1,190 J	5,000 U	5,000 U
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	9,880	8,240	10,300	10,400
6020	Thallium, Total	2	µg/L	0.97 J	1 U	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	µg/L	19.5 J	16.3 J	57	26.9
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals							
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	4.5 UJ	5 U	5.2 U
6010B	Barium, Dissolved	2,000	µg/L	5.5 J	8.7 J	200 U	200 U
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	35,500	5,970	22,900	10,400
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	2.6 UJ	1.3 UJ
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	2.7 J	4.2 J	25 U	10.1 J
6010B	Iron, Dissolved	300	µg/L	100 U	100 U	100 U	100 U
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	35.7	3 U
6010B	Magnesium, Dissolved	NA	µg/L	5,710	3,700 J	5,260	4,170 J
6010B	Manganese, Dissolved	50	µg/L	18.5	96.4	15 U	2.8 UJ
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	2.4 UJ	40 U	2.2 UJ	40 U
6010B	Potassium, Dissolved	NA	ug/L	950 J	1,260 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	9,940	8,380	10,300	10,200
6020	Thallium, Dissolved	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	18.5 J	18.6 J	69.9	22.2

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLE MOUNTAIN	RW0804-4535- UZZLERD
				8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Volatile Organic Compounds (VOCs)							
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)							
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	1,4-Dioxane	7	µg/L	2 UJ	2.2 UJ	2.2 UJ	2 U
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4-Dichlorophenol	110	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4-Dimethylphenol	140	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2,4-Dinitrophenol	73	µg/L	20 U	22 U	22 U	20 U
8270C	2,4-Dinitrotoluene	73	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	2,6-Dinitrotoluene	36	µg/L	2 U	2.2 U	2.2 U	2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLEMOUNTAIN	RW0804-4535- UZZLERD
				8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
SVOCs (cont.)							
8270C	2-Chloronaphthalene	490	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Chlorophenol	0.1	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	20 U	22 U	22 U	20 U
8270C	2-Methylnaphthalene	14	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	2-Methylphenol	1,800	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Nitroaniline	1	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	2-Nitrophenol	NA	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	3-Nitroaniline	NA	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Chloroaniline	150	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	4-Nitroaniline	NA	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	4-Nitrophenol	NA	µg/L	20 U	22 U	22 U	20 U
8270C	Acenaphthene	80	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Acenaphthylene	210	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Acetophenone	NA	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Anthracene	2,100	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Atrazine	3	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Benzaldehyde	3,600	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Biphenyl	300	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Butylbenzyl phthalate	100	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Caprolactam	3,500	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Carbazole	3.4	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Chrysene	4.79	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Dibenzofuran	28	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Diethyl phthalate	5,000	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Dimethyl phthalate	360,000	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Di-n-butyl phthalate	700	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Di-n-octyl phthalate	140	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Fluoranthene	280	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Fluorene	280	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Hexachlorobenzene	0.02	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Hexachlorobutadiene	0.44	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Hexachlorocyclopentadiene	50	µg/L	20 U	22 U	22 U	20 U
8270C	Hexachloroethane	4.8	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Isophorone	36.8	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Naphthalene	21	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Nitrobenzene	3.4	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Phenanthrene	210	µg/L	2 U	2.2 U	2.2 U	2 U
8270C	Phenol	300	µg/L	5.1 U	5.6 U	5.5 U	5.1 U
8270C	Pyrene	210	µg/L	2 U	2.2 U	2.2 U	2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTLEMOUNTAIN	RW0804-4535- UZZLERD
				8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Pesticides/PCBs							
8081A	4,4'-DDD	0.14	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	4,4'-DDE	0.2	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	4,4'-DDT	0.1	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Aldrin	0.0043	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	alpha-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	alpha-Chlordane	0.027	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	beta-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	delta-BHC	0.019	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Dieldrin	0.0022	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan I	NA	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan II	42	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endosulfan sulfate	NA	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin	2	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin aldehyde	2	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Endrin ketone	2	µg/L	0.053 UJ	0.053 UJ	0.053 UJ	0.051 U
8081A	gamma-BHC	0.2	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	gamma-Chlordane	0.027	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Heptachlor	0.008	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Heptachlor epoxide	0.004	µg/L	0.021 UJ	0.021 UJ	0.021 UJ	0.02 U
8081A	Methoxychlor	35	µg/L	0.053 UJ	0.053 UJ	0.053 UJ	0.051 U
8081A	Toxaphene	0.031	µg/L	0.27 U	0.27 U	0.26 U	0.26 U
8082	Aroclor 1016	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1221	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1232	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1242	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1248	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1254	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1260	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1262	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
8082	Aroclor 1268	0.5	µg/L	0.53 U	0.53 U	0.53 U	0.51 U
Herbicides							
8151A	2,4,5-T	360	µg/L	0.21 U	0.22 U	0.25 U	0.22 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.16 U	0.16 U	0.19 U	0.16 U
8151A	Pentachlorophenol	0.3	µg/L	0.16 U	0.16 U	0.19 U	0.16 U
Explosives/Nitroglycerin							
8330	1,3,5-Trinitrobenzene	1,100	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	1,3-Dinitrobenzene	3.6	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2,4-Dinitrotoluene	73	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2,6-Dinitrotoluene	36	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	2-Nitrotoluene	61	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	3-Nitrotoluene	61	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	4-Nitrotoluene	61	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	0.60 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	Nitrobenzene	3.4	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	0.21 UJ	0.22 UJ	0.22 UJ	1.2 U
8332	Nitroglycerine	4.8	µg/L	2.1 UJ	2.2 UJ	2.2 UJ	1.2 U
Perchlorate							
8321M	Perchlorate	3.6	µg/L	0.079 J	0.050 U	0.050 U	0.050 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4051- RANGERD	RW0804-4149- RANGERD	RW0804-750- LITTMEMOUNTAIN	RW0804-4535- UZZLERD
				8/10/2004 1:00:00 PM	8/10/2004 2:05:00 PM	8/10/2004 5:05:00 PM	8/11/2004 10:40:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Total Metals							
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	200 U	10,000
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	39.6 J	18.1 J	50.8 J	85.4 J
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U	0.35 J
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U	0.63 UJ
6010B	Calcium, Total	NA	µg/L	25,000	36,600	72,200	16,200
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U	5.4 J
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U	5.3 J
6010B	Copper, Total	1,000	µg/L	25 U	11.4 J	25 U	51.8
6010B	Iron, Total	300	µg/L	619	100 U	97.7 UJ	5,490
6010B	Lead, Total	15	µg/L	3 U	3 U	3 U	39.9
6010B	Magnesium, Total	NA	µg/L	3,720 J	3,780 J	8,000	3,050 J
6010B	Manganese, Total	50	µg/L	366	372	177	406
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.17 J
6010B	Nickel, Total	100	µg/L	40 U	40 U	40 U	6 J
6010B	Potassium, Total	NA	ug/L	5,000 U	5,000 U	1,200 J	563 J
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U	6.3
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	12,200	10,500	15,000	11,800
6020	Thallium, Total	2	µg/L	1 U	1.1 U	1 U	0.68 UJ
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U	15.3 J
6010B	Zinc, Total	2,100	µg/L	270	1,010	16.2 J	60.3
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals							
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	µg/L	37.1 J	19.1 J	51.3 J	26.7 J
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	23,900	38,100	71,500	16,600
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U	2.3 J
6010B	Copper, Dissolved	1,000	µg/L	25 U	25 U	25 U	3.7 J
6010B	Iron, Dissolved	300	µg/L	100 U	100 U	100 U	208
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	µg/L	3,560 J	3,920 J	7,980	2,700 J
6010B	Manganese, Dissolved	50	µg/L	346	386	176	391
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	40 U	40 U	2.8 UJ	3 J
6010B	Potassium, Dissolved	NA	ug/L	5,000 U	5,000 U	1,200 J	5,000 U
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	11,700	10,900	14,900	9,830
6020	Thallium, Dissolved	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	226	1,040	22.3	13.7 J

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-191-FALCONLANE	RW0804-4553-UZZLERD	RW0804-4573-UZZLERD
Sample Date/Time:				8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
Matrix:				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Volatile Organic Compounds (VOCs)						
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)						
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5.3 U	5.1 U	5.2 U
8270C	1,4-Dioxane	7	µg/L	2.1 UJ	2 U	2.1 U
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5.3 U	5.1 U	5.2 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5.3 U	5.1 U	5.2 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5.3 U	5.1 U	5.2 U
8270C	2,4-Dichlorophenol	110	µg/L	5.3 U	5.1 U	5.2 U
8270C	2,4-Dimethylphenol	140	µg/L	5.3 U	5.1 U	5.2 U
8270C	2,4-Dinitrophenol	73	µg/L	21 U	20 U	21 U
8270C	2,4-Dinitrotoluene	73	µg/L	2.1 U	2 U	2.1 U
8270C	2,6-Dinitrotoluene	36	µg/L	2.1 U	2 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-191-FALCONLANE	RW0804-4553-UZZLERD	RW0804-4573-UZZLERD
Sample Date/Time:				8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
Matrix:				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
SVOCs (cont.)						
8270C	2-Chloronaphthalene	490	µg/L	5.3 U	5.1 U	5.2 U
8270C	2-Chlorophenol	0.1	µg/L	5.3 U	5.1 U	5.2 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	21 U	20 U	21 U
8270C	2-Methylnaphthalene	14	µg/L	2.1 U	2 U	2.1 U
8270C	2-Methylphenol	1,800	µg/L	5.3 U	5.1 U	5.2 U
8270C	2-Nitroaniline	1	µg/L	5.3 U	5.1 U	5.2 U
8270C	2-Nitrophenol	NA	µg/L	5.3 U	5.1 U	5.2 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5.3 U	5.1 U	5.2 U
8270C	3-Nitroaniline	NA	µg/L	5.3 U	5.1 U	5.2 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2.1 U	2 U	2.1 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5.3 U	5.1 U	5.2 U
8270C	4-Chloroaniline	150	µg/L	5.3 U	5.1 U	5.2 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2.1 U	2 U	2.1 U
8270C	4-Nitroaniline	NA	µg/L	5.3 U	5.1 U	5.2 U
8270C	4-Nitrophenol	NA	µg/L	21 U	20 U	21 U
8270C	Acenaphthene	80	µg/L	2.1 U	2 U	2.1 U
8270C	Acenaphthylene	210	µg/L	2.1 U	2 U	2.1 U
8270C	Acetophenone	NA	µg/L	5.3 U	5.1 U	5.2 U
8270C	Anthracene	2,100	µg/L	2.1 U	2 U	2.1 U
8270C	Atrazine	3	µg/L	5.3 U	5.1 U	5.2 U
8270C	Benzaldehyde	3,600	µg/L	5.3 U	5.1 U	5.2 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2.1 U	2 U	2.1 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2.1 U	2 U	2.1 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2.1 U	2 U	2.1 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2.1 U	2 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2.1 U	2 U	2.1 U
8270C	Biphenyl	300	µg/L	2.1 U	2 U	2.1 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2.1 U	2 U	2.1 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2.1 U	2 U	2.1 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2.1 U	2 U	2.1 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2.1 U	2 U	2.1 U
8270C	Butylbenzyl phthalate	100	µg/L	2.1 U	2 U	2.1 U
8270C	Caprolactam	3,500	µg/L	2.1 U	2 U	2.1 U
8270C	Carbazole	3.4	µg/L	2.1 U	2 U	2.1 U
8270C	Chrysene	4.79	µg/L	2.1 U	2 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2.1 U	2 U	2.1 U
8270C	Dibenzofuran	28	µg/L	5.3 U	5.1 U	5.2 U
8270C	Diethyl phthalate	5,000	µg/L	2.1 U	2 U	2.1 U
8270C	Dimethyl phthalate	360,000	µg/L	2.1 U	2 U	2.1 U
8270C	Di-n-butyl phthalate	700	µg/L	2.1 U	2 U	2.1 U
8270C	Di-n-octyl phthalate	140	µg/L	2.1 U	2 U	2.1 U
8270C	Fluoranthene	280	µg/L	2.1 U	2 U	2.1 U
8270C	Fluorene	280	µg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorobenzene	0.02	µg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorobutadiene	0.44	µg/L	2.1 U	2 U	2.1 U
8270C	Hexachlorocyclopentadiene	50	µg/L	21 U	20 U	21 U
8270C	Hexachloroethane	4.8	µg/L	5.3 U	5.1 U	5.2 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2.1 U	2 U	2.1 U
8270C	Isophorone	36.8	µg/L	2.1 U	2 U	2.1 U
8270C	Naphthalene	21	µg/L	2.1 U	2 U	2.1 U
8270C	Nitrobenzene	3.4	µg/L	2.1 U	2 U	2.1 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2.1 U	2 U	2.1 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5.3 U	5.1 U	5.2 U
8270C	Phenanthrene	210	µg/L	2.1 U	2 U	2.1 U
8270C	Phenol	300	µg/L	5.3 U	5.1 U	5.2 U
8270C	Pyrene	210	µg/L	2.1 U	2 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-191-FALCONLANE	RW0804-4553-UZZLERD	RW0804-4573-UZZLERD
Sample Date/Time:				8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
Matrix:				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Pesticides/PCBs						
8081A	4,4'-DDD	0.14	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	4,4'-DDE	0.2	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	4,4'-DDT	0.1	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Aldrin	0.0043	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	alpha-BHC	0.019	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	alpha-Chlordane	0.027	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	beta-BHC	0.019	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	delta-BHC	0.019	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Dieldrin	0.0022	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endosulfan I	NA	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endosulfan II	42	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endosulfan sulfate	NA	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endrin	2	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endrin aldehyde	2	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Endrin ketone	2	µg/L	0.056 UJ	0.051 U	0.05 U
8081A	gamma-BHC	0.2	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	gamma-Chlordane	0.027	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Heptachlor	0.008	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Heptachlor epoxide	0.004	µg/L	0.022 UJ	0.02 U	0.02 U
8081A	Methoxychlor	35	µg/L	0.056 UJ	0.051 U	0.05 U
8081A	Toxaphene	0.031	µg/L	0.28 U	0.26 U	0.25 U
8082	Aroclor 1016	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1221	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1232	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1242	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1248	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1254	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1260	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1262	0.5	µg/L	0.56 U	0.51 U	0.5 U
8082	Aroclor 1268	0.5	µg/L	0.56 U	0.51 U	0.5 U
Herbicides						
8151A	2,4,5-T	360	µg/L	0.24 U	0.24 U	0.21 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.18 U	0.18 U	0.16 U
8151A	Pentachlorophenol	0.3	µg/L	0.18 U	0.18 U	0.16 U
Explosives/Nitroglycerin						
8330	1,3,5-Trinitrobenzene	1,100	µg/L	0.22 UJ	1.1 U	1.1 U
8330	1,3-Dinitrobenzene	3.6	µg/L	0.22 UJ	1.1 U	1.1 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	0.22 UJ	1.1 U	1.1 U
8330	2,4-Dinitrotoluene	73	µg/L	0.22 UJ	1.1 U	1.1 U
8330	2,6-Dinitrotoluene	36	µg/L	0.22 UJ	1.1 U	1.1 U
8330	2-Nitrotoluene	61	µg/L	0.22 UJ	1.1 U	1.1 U
8330	3-Nitrotoluene	61	µg/L	0.22 UJ	1.1 U	1.1 U
8330	4-Nitrotoluene	61	µg/L	0.22 UJ	1.1 U	1.1 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.22 UJ	0.55 U	0.55 U
8330	Methyl-2,4,6-trinitrophenylNitramine	360	µg/L	0.22 UJ	1.1 U	1.1 U
8330	Nitrobenzene	3.4	µg/L	0.22 UJ	1.1 U	1.1 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	0.22 UJ	1.1 U	1.1 U
8332	Nitroglycerine	4.8	µg/L	2.2 UJ	1.1 U	1.1 U
Perchlorate						
8321M	Perchlorate	3.6	µg/L	0.050 U	0.050 U	0.100 J

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-191- FALCONLANE	RW0804-4553- UZZLERD	RW0804-4573- UZZLERD
				8/10/2004 3:30:00 PM	8/11/2004 11:25:00 AM	8/11/2004 12:45:00 PM
				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Total Metals						
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	42.9 J	142 J	200 U
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	69,900	45,000	11,600
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	20.1 J	4.8 J	27.5
6010B	Iron, Total	300	µg/L	141	100 U	1,140
6010B	Lead, Total	15	µg/L	3 U	3 U	3.6 U
6010B	Magnesium, Total	NA	µg/L	6,680	4,400 J	2,310 J
6010B	Manganese, Total	50	µg/L	289	195	46.6
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	µg/L	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	2,430 J	2,030 J	986 J
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	11,700	8,310	5,760
6020	Thallium, Total	2	µg/L	0.84 UJ	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U
6010B	Zinc, Total	2,100	µg/L	26.3	108	26.4
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U
Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	µg/L	44 J	141 J	200 U
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	0.5 UJ	4 U
6010B	Calcium, Dissolved	NA	µg/L	72,000	44,200	11,600
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	25 U	3.5 J	17.5 J
6010B	Iron, Dissolved	300	µg/L	100 U	100 U	534
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	µg/L	6,840	4,350 J	2,290 J
6010B	Manganese, Dissolved	50	µg/L	291	190	43.9
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	3.3 J	40 U	2.4 J
6010B	Potassium, Dissolved	NA	ug/L	2,540 J	2,070 J	1,040 J
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	11,700	8,590	5,710
6020	Thallium, Dissolved	2	µg/L	0.8 UJ	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	16.7 J	107	27.8

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
				8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Volatile Organic Compounds (VOCs)							
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	71.1	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)							
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	1,4-Dioxane	7	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dichlorophenol	110	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dimethylphenol	140	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2,4-Dinitrophenol	73	µg/L	20 U	20 U	21 U	21 U
8270C	2,4-Dinitrotoluene	73	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	2,6-Dinitrotoluene	36	µg/L	2 U	2 U	2.1 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
				8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
Sample Date/Time:				GW	GW	GW	GW
Matrix:							
Analytical Method	Analyte	Project Screening Level (a)	Units				
SVOCs (cont.)							
8270C	2-Chloronaphthalene	490	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Chlorophenol	0.1	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	20 U	20 U	21 U	21 U
8270C	2-Methylnaphthalene	14	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	2-Methylphenol	1,800	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Nitroaniline	1	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	2-Nitrophenol	NA	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	3-Nitroaniline	NA	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Chloroaniline	150	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	4-Nitroaniline	NA	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	4-Nitrophenol	NA	µg/L	20 U	20 U	21 U	21 U
8270C	Acenaphthene	80	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Acenaphthylene	210	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Acetophenone	NA	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Anthracene	2,100	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Atrazine	3	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Benzaldehyde	3,600	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Biphenyl	300	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Butylbenzyl phthalate	100	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Caprolactam	3,500	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Carbazole	3.4	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Chrysene	4.79	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dibenzofuran	28	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Diethyl phthalate	5,000	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Dimethyl phthalate	360,000	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Di-n-butyl phthalate	700	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Di-n-octyl phthalate	140	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Fluoranthene	280	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Fluorene	280	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Hexachlorobenzene	0.02	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Hexachlorobutadiene	0.44	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Hexachlorocyclopentadiene	50	µg/L	20 U	20 U	21 U	21 U
8270C	Hexachloroethane	4.8	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Isophorone	36.8	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Naphthalene	21	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Nitrobenzene	3.4	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Phenanthrene	210	µg/L	2 U	2 U	2.1 U	2.1 U
8270C	Phenol	300	µg/L	5 U	5.1 U	5.2 U	5.3 U
8270C	Pyrene	210	µg/L	2 U	2 U	2.1 U	2.1 U

Table 5: ANALYTICAL RESULTS

Sample ID:				RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
Sample Date/Time:				8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
Matrix:				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Pesticides/PCBs							
8081A	4,4'-DDD	0.14	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	4,4'-DDE	0.2	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	4,4'-DDT	0.1	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Aldrin	0.0043	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	alpha-BHC	0.019	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	alpha-Chlordane	0.027	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	beta-BHC	0.019	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	delta-BHC	0.019	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Dieldrin	0.0022	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan I	NA	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan II	42	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endosulfan sulfate	NA	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin	2	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin aldehyde	2	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Endrin ketone	2	µg/L	0.052 U	0.052 U	0.054 U	0.056 U
8081A	gamma-BHC	0.2	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	gamma-Chlordane	0.027	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Heptachlor	0.008	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Heptachlor epoxide	0.004	µg/L	0.021 U	0.021 U	0.022 U	0.022 U
8081A	Methoxychlor	35	µg/L	0.052 U	0.052 U	0.054 U	0.056 U
8081A	Toxaphene	0.031	µg/L	0.26 U	0.26 U	0.27 U	0.28 U
8082	Aroclor 1016	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1221	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1232	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1242	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1248	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1254	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1260	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1262	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
8082	Aroclor 1268	0.5	µg/L	0.52 U	0.52 U	0.54 U	0.56 U
Herbicides							
8151A	2,4,5-T	360	µg/L	0.22 U	0.22 U	0.22 U	0.22 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.17 U	0.16 U	0.17 U	0.17 U
8151A	Pentachlorophenol	0.3	µg/L	0.17 U	0.16 U	0.17 U	0.17 U
Explosives/Nitroglycerin							
8330	1,3,5-Trinitrobenzene	1,100	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	1,3-Dinitrobenzene	3.6	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,4-Dinitrotoluene	73	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2,6-Dinitrotoluene	36	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	2-Nitrotoluene	61	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	3-Nitrotoluene	61	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	4-Nitrotoluene	61	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.50 U	0.55 U	0.55 U	0.60 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	Nitrobenzene	3.4	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
8332	Nitroglycerine	4.8	µg/L	1.0 U	1.1 U	1.1 U	1.2 U
Perchlorate							
8321M	Perchlorate	3.6	µg/L	0.050 U	0.050 U	0.518	0.050 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-4578- UZZLERD	RW0804- FIELDDUP2 (c)	RW0804-4710- MORIAHRD	RW0804-4709- MORIAHRD
				8/11/2004 9:25:00 AM	8/11/2004 9:25:00 AM	8/12/2004 8:15:00 AM	8/12/2004 9:25:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Total Metals							
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	695	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	15.7 J	15.4 J	17 J	5.7 UJ
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	8,270	8,120	65,200	170 J
6010B	Chromium, Total	50	µg/L	3.4 J	3.2 J	1.6 J	10 U
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	20.1 J	14.1 J	50.4	11.8 J
6010B	Iron, Total	300	µg/L	100 U	100 U	3,290	162
6010B	Lead, Total	15	µg/L	3 U	3 U	5.9	3 U
6010B	Magnesium, Total	NA	µg/L	2,110 J	2,070 J	8,510	13.8 J
6010B	Manganese, Total	50	µg/L	12.6 J	12.2 J	310	2.7 J
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	µg/L	2.6 J	3.1 J	40 U	40 U
6010B	Potassium, Total	NA	ug/L	808 J	763 J	1,660 J	5,000 U
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	4,490 J	4,450 J	17,700	87,100
6020	Thallium, Total	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	2.4 J	50 U
6010B	Zinc, Total	2,100	µg/L	15.5 J	12.8 J	102	10 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals							
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	µg/L	15.6 J	15.2 J	9.3 J	200 U
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	8,120	8,120	59,900	234 J
6010B	Chromium, Dissolved	50	µg/L	3.4 J	3.3 J	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	12.5 J	12.3 J	5.5 UJ	8.7 J
6010B	Iron, Dissolved	300	µg/L	100 U	100 U	100 U	100 U
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	µg/L	2,070 J	2,060 J	7,750	16.7 J
6010B	Manganese, Dissolved	50	µg/L	11.5 J	11.3 J	11.5 J	15 U
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	2.7 J	40 U	40 U	40 U
6010B	Potassium, Dissolved	NA	ug/L	841 J	804 J	1,610 J	5,000 J
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	4,340 J	4,430 J	17,900	90,200
6020	Thallium, Dissolved	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	14.9 J	12.3 J	61.9	10.7 J

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-5057- CLAYTONRD	RW0804- HESTERFARM	RW0804-627B- ENONRD	RW0804-564- BETHANYCHURCH
				8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Volatile Organic Compounds (VOCs)							
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)							
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	1,4-Dioxane	7	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4-Dichlorophenol	110	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4-Dimethylphenol	140	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2,4-Dinitrophenol	73	µg/L	21 U	20 U	20 U	22 U
8270C	2,4-Dinitrotoluene	73	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	2,6-Dinitrotoluene	36	µg/L	2.1 U	2 U	2 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time:				RW0804-5057-CLAYTONRD	RW0804-HESTERFARM	RW0804-627B-ENONRD	RW0804-564-BETHANYCHURCH
				8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
				GW	GW	GW	GW
Matrix:							
Analytical Method	Analyte	Project Screening Level (a)	Units				
SVOCs (cont.)							
8270C	2-Chloronaphthalene	490	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2-Chlorophenol	0.1	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	21 U	20 U	20 U	22 U
8270C	2-Methylnaphthalene	14	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	2-Methylphenol	1,800	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2-Nitroaniline	1	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	2-Nitrophenol	NA	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	3-Nitroaniline	NA	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	4-Chloroaniline	150	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	4-Nitroaniline	NA	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	4-Nitrophenol	NA	µg/L	21 U	20 U	20 U	22 U
8270C	Acenaphthene	80	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Acenaphthylene	210	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Acetophenone	NA	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Anthracene	2,100	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Atrazine	3	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Benzaldehyde	3,600	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Biphenyl	300	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	7.9	2 U	2 U	2.2 U
8270C	Butylbenzyl phthalate	100	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Caprolactam	3,500	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Carbazole	3.4	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Chrysene	4.79	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Dibenzofuran	28	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Diethyl phthalate	5,000	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Dimethyl phthalate	360,000	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Di-n-butyl phthalate	700	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Di-n-octyl phthalate	140	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Fluoranthene	280	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Fluorene	280	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Hexachlorobenzene	0.02	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Hexachlorobutadiene	0.44	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Hexachlorocyclopentadiene	50	µg/L	21 U	20 U	20 U	22 U
8270C	Hexachloroethane	4.8	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Isophorone	36.8	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Naphthalene	21	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Nitrobenzene	3.4	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Phenanthrene	210	µg/L	2.1 U	2 U	2 U	2.2 U
8270C	Phenol	300	µg/L	5.3 U	5.1 U	5.1 U	5.5 U
8270C	Pyrene	210	µg/L	2.1 U	2 U	2 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: <div>RW0804-5057-CLAYTONRD</div>				RW0804-5057-CLAYTONRD	RW0804-HESTERFARM	RW0804-627B-ENONRD	RW0804-564-BETHANYCHURCH
Sample Date/Time:				8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
Matrix:				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Pesticides/PCBs							
8081A	4,4'-DDD	0.14	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	4,4'-DDE	0.2	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	4,4'-DDT	0.1	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Aldrin	0.0043	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	alpha-BHC	0.019	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	alpha-Chlordane	0.027	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	beta-BHC	0.019	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	delta-BHC	0.019	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Dieldrin	0.0022	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan I	NA	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan II	42	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endosulfan sulfate	NA	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin	2	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin aldehyde	2	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Endrin ketone	2	µg/L	0.056 U	0.051 U	0.052 U	0.056 U
8081A	gamma-BHC	0.2	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	gamma-Chlordane	0.027	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Heptachlor	0.008	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Heptachlor epoxide	0.004	µg/L	0.022 U	0.02 U	0.021 U	0.022 U
8081A	Methoxychlor	35	µg/L	0.056 U	0.051 U	0.052 U	0.056 U
8081A	Toxaphene	0.031	µg/L	0.28 U	0.26 U	0.26 U	0.28 U
8082	Aroclor 1016	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1221	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1232	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1242	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1248	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1254	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1260	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1262	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
8082	Aroclor 1268	0.5	µg/L	0.56 U	0.51 U	0.52 U	0.56 U
Herbicides							
8151A	2,4,5-T	360	µg/L	0.22 U	0.24 U	0.21 U	0.21 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.17 U	0.18 U	0.16 U	0.16 U
8151A	Pentachlorophenol	0.3	µg/L	0.17 U	0.18 U	0.16 U	0.16 U
Explosives/Nitroglycerin							
8330	1,3,5-Trinitrobenzene	1,100	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	1,3-Dinitrobenzene	3.6	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2,4-Dinitrotoluene	73	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2,6-Dinitrotoluene	36	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	2-Nitrotoluene	61	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	3-Nitrotoluene	61	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	4-Nitrotoluene	61	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.55 U	0.60 U	0.55 U	0.55 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	Nitrobenzene	3.4	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
8332	Nitroglycerine	4.8	µg/L	1.1 U	1.2 U	1.1 U	1.1 U
Perchlorate							
8321M	Perchlorate	3.6	µg/L	1.91	0.050 U	0.050 U	10.3

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-5057- CLAYTONRD	RW0804- HESTERFARM	RW0804-627B- ENONRD	RW0804-564- BETHANYCHURCH
				8/12/2004 10:10:00 AM	8/11/2004 3:25:00 PM	8/11/2004 4:30:00 PM	8/12/2004 10:50:00 AM
				GW	GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units				
Total Metals							
6010B	Aluminum, Total	36,000	µg/L	354	200 U	118 J	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	52.4 J	24.1 J	22.8 J	260
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	15,600	36,700	14,400	40,800
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	25.6	6.7 J	9.2 J	6.5 J
6010B	Iron, Total	300	µg/L	3,210	1,280	984	100 U
6010B	Lead, Total	15	µg/L	3 U	3.4 U	3 U	3 U
6010B	Magnesium, Total	NA	µg/L	4,570 J	7,000	1,120 J	5,610
6010B	Manganese, Total	50	µg/L	222	540	351	108
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.099 J	0.2 U
6010B	Nickel, Total	100	µg/L	3.5 J	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	1,800 J	2,770 J	5,000 U	1,070 J
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	16,800	11,000	7,640	17,800
6020	Thallium, Total	2	µg/L	1 U	0.84 UJ	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Total	2,100	µg/L	156	28.4	8.2 J	8.8 J
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U	0.01 U
Dissolved Metals							
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	5 U	5 U	5 U
6010B	Barium, Dissolved	2,000	µg/L	50.8 J	22.9 J	21.8 J	262
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	15,400	37,000	15,200	40,700
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	20.2 J	25 U	5.9 J	6.3 J
6010B	Iron, Dissolved	300	µg/L	403	266	100 U	100 U
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	3 U	3 U
6010B	Magnesium, Dissolved	NA	µg/L	4,470 J	7,090	1,140 J	5,610
6010B	Manganese, Dissolved	50	µg/L	216	543	354	13.3 J
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.12 J	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	3.1 J	40 U	2.2 J	40 U
6010B	Potassium, Dissolved	NA	ug/L	1,850 J	2,890 J	5,000 U	1,110 J
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	16,900	11,200	7,790	18,200
6020	Thallium, Dissolved	2	µg/L	1 U	1 U	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	147	34.1	12.2 J	20.6

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDDUP3 (d)
				8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Volatile Organic Compounds (VOCs)						
8260B	1,1,1-Trichloroethane	200	µg/L	1 U	1 U	1 U
8260B	1,1,2,2-Tetrachloroethane	0.17	µg/L	1 U	1 U	1 U
8260B	1,1,2-Trichloroethane	5	µg/L	1 U	1 U	1 U
8260B	1,1-Dichloroethane	700	µg/L	1 U	1 U	1 U
8260B	1,1-Dichloroethene	7	µg/L	1 U	1 U	1 U
8260B	1,2,3-Trichlorobenzene	NA	µg/L	5 U	5 U	5 U
8260B	1,2,4-Trichlorobenzene	70	µg/L	5 U	5 U	5 U
8260B	1,2-Dibromo-3-chloropropane	0.025	µg/L	10 U	10 U	10 U
8260B	1,2-Dibromoethane	0.0004	µg/L	2 U	2 U	2 U
8260B	1,2-Dichlorobenzene	600	µg/L	1 U	1 U	1 U
8260B	1,2-Dichloroethane	0.38	µg/L	1 U	1 U	1 U
8260B	1,2-Dichloropropane	0.56	µg/L	1 U	1 U	1 U
8260B	1,3-Dichlorobenzene	620	µg/L	1 U	1 U	1 U
8260B	1,4-Dichlorobenzene	75	µg/L	1 U	1 U	1 U
8260B	2-Butanone	170	µg/L	10 U	10 U	10 U
8260B	2-Hexanone	280	µg/L	5 U	5 U	5 U
8260B	4-Methyl-2-Pentanone	160	µg/L	5 U	5 U	5 U
8260B	Acetone	700	µg/L	10 U	10 U	10 U
8260B	Benzene	1	µg/L	1 U	1 U	1 U
8260B	Bromochloromethane	NA	µg/L	5 U	5 U	5 U
8260B	Bromodichloromethane	0.56	µg/L	1 U	1 U	1 U
8260B	Bromoform	0.19	µg/L	4 U	4 U	4 U
8260B	Bromomethane	8.7	µg/L	2 U	2 U	2 U
8260B	Carbon disulfide	700	µg/L	2 U	2 U	2 U
8260B	Carbon tetrachloride	0.3	µg/L	1 U	1 U	1 U
8260B	Chlorobenzene	50	µg/L	1 U	1 U	1 U
8260B	Chloroethane	2,800	µg/L	1 U	1 U	1 U
8260B	Chloroform	0.19	µg/L	1 U	1 U	1 U
8260B	Chloromethane	2.6	µg/L	1 U	1 U	1 U
8260B	cis-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U
8260B	cis-1,3-Dichloropropene	0.19	µg/L	1 U	1 U	1 U
8260B	Cyclohexane	35,000	µg/L	5 U	5 U	5 U
8260B	Dibromochloromethane	0.41	µg/L	1 U	1 U	1 U
8260B	Dichlorodifluoromethane	1,400	µg/L	5 U	5 U	5 U
8260B	Ethylbenzene	29	µg/L	1 U	1 U	1 U
8260B	Freon 113	210,000	µg/L	5 U	5 U	5 U
8260B	Isopropylbenzene	70	µg/L	2 U	2 U	2 U
8260B	M,P-Xylene	530	µg/L	1 U	1 U	1 U
8260B	Methyl Acetate	6,100	µg/L	5 U	5 U	5 U
8260B	Methyl tert-butyl ether	200	µg/L	1 U	1 U	1 U
8260B	Methylcyclohexane	NA	µg/L	5 U	5 U	5 U
8260B	Methylene chloride	5	µg/L	2 U	2 U	2 U
8260B	o-Xylene	530	µg/L	1 U	1 U	1 U
8260B	Styrene	100	µg/L	5 U	5 U	5 U
8260B	Tetrachloroethene	0.7	µg/L	1 U	1 U	1 U
8260B	Toluene	1,000	µg/L	1 U	1 U	1 U
8260B	Total Xylenes	530	µg/L	1 U	1 U	1 U
8260B	trans-1,2-Dichloroethene	70	µg/L	1 U	1 U	1 U
8260B	Trichloroethene	2.8	µg/L	1 U	1 U	1 U
8260B	Trichlorofluoromethane	2,100	µg/L	5 U	5 U	5 U
8260B	Vinyl chloride	0.015	µg/L	1 U	1 U	1 U
Semi-volatile Organic Compounds (SVOCs)						
8270C	1,2,4,5-Tetrachlorobenzene	11	µg/L	5.6 U	5.3 U	5.4 U
8270C	1,4-Dioxane	7	µg/L	2.2 U	2.1 U	2.2 U
8270C	2,3,4,6-Tetrachlorophenol	210	µg/L	5.6 U	5.3 U	5.4 U
8270C	2,4,5-Trichlorophenol	3,600	µg/L	5.6 U	5.3 U	5.4 U
8270C	2,4,6-Trichlorophenol	3.6	µg/L	5.6 U	5.3 U	5.4 U
8270C	2,4-Dichlorophenol	110	µg/L	5.6 U	5.3 U	5.4 U
8270C	2,4-Dimethylphenol	140	µg/L	5.6 U	5.3 U	5.4 U
8270C	2,4-Dinitrophenol	73	µg/L	22 U	21 U	22 U
8270C	2,4-Dinitrotoluene	73	µg/L	2.2 U	2.1 U	2.2 U
8270C	2,6-Dinitrotoluene	36	µg/L	2.2 U	2.1 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDUP3 (d)
				8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
SVOCs (cont.)						
8270C	2-Chloronaphthalene	490	µg/L	5.6 U	5.3 U	5.4 U
8270C	2-Chlorophenol	0.1	µg/L	5.6 U	5.3 U	5.4 U
8270C	2-Methyl-4,6-dinitrophenol	NA	µg/L	2.2 U	2.1 U	2.2 U
8270C	2-Methylnaphthalene	14	µg/L	2.2 U	2.1 U	2.2 U
8270C	2-Methylphenol	1,800	µg/L	5.6 U	5.3 U	5.4 U
8270C	2-Nitroaniline	1	µg/L	5.6 U	5.3 U	5.4 U
8270C	2-Nitrophenol	NA	µg/L	5.6 U	5.3 U	5.4 U
8270C	3,3'-Dichlorobenzidine	0.15	µg/L	5.6 U	5.3 U	5.4 U
8270C	3-Nitroaniline	NA	µg/L	5.6 U	5.3 U	5.4 U
8270C	4-Bromophenyl phenyl ether	NA	µg/L	2.2 U	2.1 U	2.2 U
8270C	4-Chloro-3-methylphenol	NA	µg/L	5.6 U	5.3 U	5.4 U
8270C	4-Chloroaniline	150	µg/L	5.6 U	5.3 U	5.4 U
8270C	4-Chlorophenyl phenyl ether	NA	µg/L	2.2 U	2.1 U	2.2 U
8270C	4-Nitroaniline	NA	µg/L	5.6 U	5.3 U	5.4 U
8270C	4-Nitrophenol	NA	µg/L	2.2 U	2.1 U	2.2 U
8270C	Acenaphthene	80	µg/L	2.2 U	2.1 U	2.2 U
8270C	Acenaphthylene	210	µg/L	2.2 U	2.1 U	2.2 U
8270C	Acetophenone	NA	µg/L	5.6 U	5.3 U	5.4 U
8270C	Anthracene	2,100	µg/L	2.2 U	2.1 U	2.2 U
8270C	Atrazine	3	µg/L	5.6 U	5.3 U	5.4 U
8270C	Benzaldehyde	3,600	µg/L	5.6 U	5.3 U	5.4 U
8270C	Benzo(a)anthracene	0.0479	µg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(a)pyrene	0.00479	µg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(b)fluoranthene	0.0479	µg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(g,h,i)perylene	210	µg/L	2.2 U	2.1 U	2.2 U
8270C	Benzo(k)fluoranthene	0.479	µg/L	2.2 U	2.1 U	2.2 U
8270C	Biphenyl	300	µg/L	2.2 U	2.1 U	2.2 U
8270C	bis(2-Chloroethoxy)methane	NA	µg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-chloroethyl) ether	0.031	µg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-chloroisopropyl) ether	0.27	µg/L	2.2 U	2.1 U	2.2 U
8270C	Bis(2-ethylhexyl) phthalate	3	µg/L	2.2 U	2.1 U	2.2 U
8270C	Butylbenzyl phthalate	100	µg/L	2.2 U	2.1 U	2.2 U
8270C	Caprolactam	3,500	µg/L	2.2 U	2.1 U	2.2 U
8270C	Carbazole	3.4	µg/L	2.2 U	2.1 U	2.2 U
8270C	Chrysene	4.79	µg/L	2.2 U	2.1 U	2.2 U
8270C	Dibenz(a,h)anthracene	0.0047	µg/L	2.2 U	2.1 U	2.2 U
8270C	Dibenzofuran	28	µg/L	5.6 U	5.3 U	5.4 U
8270C	Diethyl phthalate	5,000	µg/L	2.2 U	2.1 U	2.2 U
8270C	Dimethyl phthalate	360,000	µg/L	2.2 U	2.1 U	2.2 U
8270C	Di-n-butyl phthalate	700	µg/L	2.2 U	2.1 U	2.2 U
8270C	Di-n-octyl phthalate	140	µg/L	2.2 U	2.1 U	2.2 U
8270C	Fluoranthene	280	µg/L	2.2 U	2.1 U	2.2 U
8270C	Fluorene	280	µg/L	2.2 U	2.1 U	2.2 U
8270C	Hexachlorobenzene	0.02	µg/L	2.2 U	2.1 U	2.2 U
8270C	Hexachlorobutadiene	0.44	µg/L	2.2 U	2.1 U	2.2 U
8270C	Hexachlorocyclopentadiene	50	µg/L	2.2 U	2.1 U	2.2 U
8270C	Hexachloroethane	4.8	µg/L	5.6 U	5.3 U	5.4 U
8270C	Indeno(1,2,3-cd)pyrene	0.0479	µg/L	2.2 U	2.1 U	2.2 U
8270C	Isophorone	36.8	µg/L	2.2 U	2.1 U	2.2 U
8270C	Naphthalene	21	µg/L	2.2 U	2.1 U	2.2 U
8270C	Nitrobenzene	3.4	µg/L	2.2 U	2.1 U	2.2 U
8270C	N-Nitroso-di-n-propylamine	0.0096	µg/L	2.2 U	2.1 U	2.2 U
8270C	N-Nitrosodiphenylamine	14	µg/L	5.6 U	5.3 U	5.4 U
8270C	Phenanthrene	210	µg/L	2.2 U	2.1 U	2.2 U
8270C	Phenol	300	µg/L	5.6 UJ	5.3 U	5.4 U
8270C	Pyrene	210	µg/L	2.2 U	2.1 U	2.2 U

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDUP3 (d)
				8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Pesticides/PCBs						
8081A	4,4'-DDD	0.14	µg/L	0.023 U	0.022 U	0.022 U
8081A	4,4'-DDE	0.2	µg/L	0.023 U	0.022 U	0.022 U
8081A	4,4'-DDT	0.1	µg/L	0.023 U	0.022 U	0.022 U
8081A	Aldrin	0.0043	µg/L	0.023 U	0.022 U	0.022 U
8081A	alpha-BHC	0.019	µg/L	0.023 U	0.022 U	0.022 U
8081A	alpha-Chlordane	0.027	µg/L	0.023 U	0.088	0.088
8081A	beta-BHC	0.019	µg/L	0.023 U	0.022 U	0.022 U
8081A	delta-BHC	0.019	µg/L	0.023 U	0.022 U	0.022 U
8081A	Dieldrin	0.0022	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan I	NA	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan II	42	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endosulfan sulfate	NA	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin	2	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin aldehyde	2	µg/L	0.023 U	0.022 U	0.022 U
8081A	Endrin ketone	2	µg/L	0.057 U	0.056 U	0.056 U
8081A	gamma-BHC	0.2	µg/L	0.023 U	0.022 U	0.022 U
8081A	gamma-Chlordane	0.027	µg/L	0.023 U	0.13	0.13
8081A	Heptachlor	0.008	µg/L	0.023 U	0.022 U	0.022 U
8081A	Heptachlor epoxide	0.004	µg/L	0.023 U	0.48	0.49
8081A	Methoxychlor	35	µg/L	0.057 U	0.056 U	0.056 U
8081A	Toxaphene	0.031	µg/L	0.28 U	0.28 U	0.28 U
8082	Aroclor 1016	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1221	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1232	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1242	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1248	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1254	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1260	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1262	0.5	µg/L	0.57 U	0.56 U	0.56 U
8082	Aroclor 1268	0.5	µg/L	0.57 U	0.56 U	0.56 U
Herbicides						
8151A	2,4,5-T	360	µg/L	0.24 U	0.22 U	0.21 U
8151A	2,4,5-TP (Silvex)	50	µg/L	0.18 U	0.17 U	0.16 U
8151A	Pentachlorophenol	0.3	µg/L	0.18 U	0.17 U	0.16 U
Explosives/Nitroglycerin						
8330	1,3,5-Trinitrobenzene	1,100	µg/L	1.1 U	1.1 U	1.1 U
8330	1,3-Dinitrobenzene	3.6	µg/L	1.1 U	1.1 U	1.1 U
8330	2,4,6-Trinitrotoluene	2.2	µg/L	1.1 U	1.1 U	1.1 U
8330	2,4-Dinitrotoluene	73	µg/L	1.1 U	1.1 U	1.1 U
8330	2,6-Dinitrotoluene	36	µg/L	1.1 U	1.1 U	1.1 U
8330	2-Nitrotoluene	61	µg/L	1.1 UJ	1.1 U	1.1 U
8330	3-Nitrotoluene	61	µg/L	1.1 U	1.1 U	1.1 U
8330	4-Nitrotoluene	61	µg/L	1.1 U	1.1 U	1.1 U
8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	0.61	µg/L	0.55 U	0.55 U	0.55 U
8330	Methyl-2,4,6-trinitrophenylnitramine	360	µg/L	1.1 U	1.1 U	1.1 U
8330	Nitrobenzene	3.4	µg/L	1.1 UJ	1.1 U	1.1 U
8330	Octahydro-tetranitro-1,3,5,7-tetrazocine	1,800	µg/L	1.1 U	1.1 U	1.1 U
8332	Nitroglycerine	4.8	µg/L	1.1 U	1.1 U	1.1 U
Perchlorate						
8321M	Perchlorate	3.6	µg/L	0.050 U	1.83	1.89

Table 5: ANALYTICAL RESULTS

Sample ID: Sample Date/Time: Matrix:				RW0804-6305- ISHAMCHAMBERS	RW0804-2202- TILLEYFARMRD	RW0804- FIELDDUP3 (d)
				8/12/2004 11:55:00 AM	8/12/2004 1:00:00 PM	8/12/2004 1:00:00 PM
				GW	GW	GW
Analytical Method	Analyte	Project Screening Level (a)	Units			
Total Metals						
6010B	Aluminum, Total	36,000	µg/L	200 U	200 U	200 U
6010B	Antimony, Total	6	µg/L	5 U	5 U	5 U
6010B	Arsenic, Total	10	µg/L	5 U	5 U	5 U
6010B	Barium, Total	2,000	µg/L	37.6 J	12.6 J	14.9 J
6020	Beryllium, Total	4	µg/L	2 U	2 U	2 U
6010B	Cadmium, Total	5	µg/L	4 U	4 U	4 U
6010B	Calcium, Total	NA	µg/L	43,100	6,900	6,710
6010B	Chromium, Total	50	µg/L	10 U	10 U	10 U
6010B	Cobalt, Total	730	µg/L	50 U	50 U	50 U
6010B	Copper, Total	1,000	µg/L	25 U	62.4	75.9
6010B	Iron, Total	300	µg/L	1,000	199	185
6010B	Lead, Total	15	µg/L	3 U	4.4	3.8
6010B	Magnesium, Total	NA	µg/L	9,190	1,770 J	1,730 J
6010B	Manganese, Total	50	µg/L	634	15 U	15 U
7470A	Mercury, Total	1.1	µg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Total	100	µg/L	40 U	40 U	40 U
6010B	Potassium, Total	NA	ug/L	1,610 J	5,000 U	5,000 U
6010B	Selenium, Total	50	µg/L	5 U	5 U	5 U
6010B	Silver, Total	18	µg/L	10 U	10 U	10 U
6010B	Sodium, Total	NA	µg/L	11,800	8,800	9,010
6020	Thallium, Total	2	µg/L	0.68 UJ	1 U	1 U
6010B	Vanadium, Total	260	µg/L	50 U	50 U	50 U
6010B	Zinc, Total	2,100	µg/L	155	30.5	56.2
9012A	Cyanide	0.154	mg/L	0.01 U	0.01 U	0.01 U
Dissolved Metals						
6010B	Aluminum, Dissolved	36,000	µg/L	200 U	200 U	200 U
6010B	Antimony, Dissolved	6	µg/L	5 U	5 U	5 U
6010B	Arsenic, Dissolved	10	µg/L	5 U	4.1 J	5 U
6010B	Barium, Dissolved	2,000	µg/L	41.2 J	15 J	14.7 J
6020	Beryllium, Dissolved	4	µg/L	2 U	2 U	2 U
6010B	Cadmium, Dissolved	5	µg/L	4 U	4 U	4 U
6010B	Calcium, Dissolved	NA	µg/L	45,200	7,040	6,770
6010B	Chromium, Dissolved	50	µg/L	10 U	10 U	10 U
6010B	Cobalt, Dissolved	730	µg/L	50 U	50 U	50 U
6010B	Copper, Dissolved	1,000	µg/L	25 U	48.4	63.5
6010B	Iron, Dissolved	300	µg/L	995	100 U	100 U
6010B	Lead, Dissolved	15	µg/L	3 U	3 U	3.4
6010B	Magnesium, Dissolved	NA	µg/L	9,550	1,810 J	1,760 J
6010B	Manganese, Dissolved	50	µg/L	668	15 U	15 U
7470A	Mercury, Dissolved	1.1	µg/L	0.2 U	0.2 U	0.2 U
6010B	Nickel, Dissolved	100	µg/L	40 U	40 U	40 U
6010B	Potassium, Dissolved	NA	ug/L	1,840 J	5,000 U	5,000 U
6010B	Selenium, Dissolved	50	µg/L	5 U	5 U	5 U
6010B	Silver, Dissolved	18	µg/L	10 U	10 U	10 U
6010B	Sodium, Dissolved	NA	µg/L	12,600	9,310	8,910
6020	Thallium, Dissolved	2	µg/L	0.65 J	1 U	1 U
6010B	Vanadium, Dissolved	260	µg/L	50 U	50 U	50 U
6010B	Zinc, Dissolved	2,100	µg/L	155	37.3	79.5

µg/L - micrograms/Liter

AQ - Aqueous.

GW - Groundwater.

J - Estimated value.

NA - Not available.

U - Not detected below reported detection limit.

UJ - Not detected below reported detection limit. Detection limit is an estimated value.

Bolded result exceeds project screening level.

(a) As determined by the USACE and NCDENR in the Field Sampling Plan.

(b) Duplicate of sample RW0804-653-LakeviewDr.

(c) Duplicate of sample RW0804-4578-UzzleRd.

(d) Duplicate of sample RW0804-2202TilleyFarmRd.

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
NORTH CAROLINA NATIONAL GUARD			
Perchlorate	0.294	3.6	1.83
Calcium	34,500	NA	6,900
Copper	131	1,000	62.4
Lead	14.8	15	4.4
Magnesium	9,100	NA	1,810
Potassium	595 J	NA	ND
Sodium	10,900	NA	8,800
Zinc	364	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

1 – Dissolved metals result shown, total metals result detected lower than dissolved metals result

2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

3 – Dissolved metals result shown, total metals result not detected above the laboratory detection limit

4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
652 LAKEVIEW DRIVE			
Perchlorate	3.94	3.6	1.83
Barium	18.9 J	2,000	15
Calcium	6,430	NA	6,900
Copper	9 J	1,000	62.4
Iron	844 ²	300	199
Magnesium	1,440 J	NA	1,810
Manganese	533	50	ND
Potassium	1,050 J	NA	ND
Sodium	7,560	NA	8,800
Zinc	958	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)		PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
653 LAKEVIEW DRIVE and DUPLICATE 1				
	PRIMARY	DUPLICATE		
Perchlorate	0.335	0.291	3.6	1.83
Calcium	11,800	11,700	NA	6,900
Copper	11.1 J	10.2 J	1,000	62.4
Lead	8.2	7.1	15	4.4
Magnesium	3,420 J	3,380 J	NA	1,810
Mercury	0.092 J ³	0.015 J	1.1	ND
Nickel	3.7 J	ND	100	ND
Sodium	11,000	11,200	NA	8,800
Zinc	10.5 J	10.5 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
658 LAKEVIEW DRIVE			
Perchlorate	0.254	3.6	1.83
Barium	5.2 J	2,000	15
Calcium	35,000	NA	6,900
Copper	2.7 J ³	1,000	62.4
Magnesium	5,600	NA	1,810
Manganese	19	50	ND
Potassium	950 J ¹	NA	ND
Sodium	9,880	NA	8,800
Thallium	0.97 J	2	ND
Zinc	19.5 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
3536 FLETCHERS WAY			
Barium	8.5 J	2,000	15
Calcium	5,780	NA	6,900
Copper	6.3 J	1,000	62.4
Iron	385 ²	300	199
Magnesium	3,560 J	NA	1,810
Manganese	93.4	50	ND
Potassium	1,190 J	NA	ND
Sodium	8,240	NA	8,800
Zinc	16.3 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
CAMP BARHAM			
Perchlorate	0.227 J	3.6	1.83
Calcium	23,500	NA	6,900
Copper	16.5 J	1,000	62.4
Lead	35.7 ¹	15	4.4
Magnesium	5,310	NA	1,810
Sodium	10,300	NA	8,800
Zinc	69.9 ¹	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
CAMP EASON			
Bis(2-Ethylhexyl)phthalate	9.3	3	
Chloroform	0.23 J	0.19	
Perchlorate	0.504	3.6	1.83
Calcium	10,200	NA	6,900
Copper	25	1,000	62.4
Lead	12.1	15	4.4
Magnesium	4,060 J	NA	1,810
Sodium	10,400	NA	8,800
Zinc	26.9	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4051 RANGE ROAD			
Perchlorate	0.079 J	3.6	1.83
Barium	39.6 J	2,000	15
Calcium	25,000	NA	6,900
Iron	619 ²	300	199
Magnesium	3,720 J	NA	1,810
Manganese	366	50	ND
Sodium	12,200	NA	8,800
Zinc	270	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

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ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4149 RANGE ROAD			
Barium	18.1 J	2,000	15
Calcium	36,600	NA	6,900
Copper	11.4 J	1,000	62.4
Magnesium	3,780 J	NA	1,810
Manganese	372	50	ND
Sodium	10,500	NA	8,800
Zinc	1,010	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
750 LITTLE MOUNTAIN ROAD			
Barium	50.8 J	2,000	15
Calcium	72,200	NA	6,900
Magnesium	8,000	NA	ND
Manganese	177	50	ND
Potassium	1,200 J	NA	ND
Sodium	15,000	NA	8,800
Zinc	22.3 ¹	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4535 UZZLE ROAD			
Aluminum	10,000	36,000	ND
Barium	85.4 J	2,000	15
Beryllium	0.35 J	4	ND
Calcium	16,200	NA	6,900
Chromium	5.4 J	50	ND
Cobalt	5.3 J	730	ND
Copper	51.8	1,000	62.4
Iron	5,490	300	199
Lead	39.9 ²	15	4.4
Magnesium	3,050 J	NA	1,810
Manganese	406	50	ND
Mercury	0.17 J	1.1	ND
Nickel	6 J	100	ND
Potassium	563 J	NA	ND
Selenium	6.3	50	ND
Sodium	11,800	NA	8,800
Vanadium	15.3 J	260	ND
Zinc	60.3	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
191 FALCON LANE			
Barium	42.9 J	2,000	15
Calcium	69,900	NA	6,900
Copper	20.1 J	1,000	62.4
Iron	141	300	199
Magnesium	6,680	NA	ND
Manganese	289	50	ND
Nickel	3.3 J ³	100	ND
Potassium	2,540 J ¹	NA	ND
Sodium	11,700	NA	8,800
Zinc	26.3	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4553 UZZLE ROAD			
Barium	142 J	2,000	15
Calcium	45,000	NA	6,900
Copper	4.8 J	1,000	62.4
Magnesium	4,400 J	NA	1,810
Manganese	195	50	ND
Potassium	2,030 J	NA	ND
Sodium	8,310	NA	8,800
Zinc	108	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

3 – Dissolved metals result shown, total metals result not detected above the laboratory detection limit

4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4573 UZZLE ROAD			
Perchlorate	0.100 J	3.6	1.83
Calcium	11,600	NA	6,900
Copper	27.5	1,000	62.4
Iron	1,140	300	199
Magnesium	2,310 J	NA	1,810
Manganese	46.6	50	ND
Nickel	2.4 J ³	100	ND
Potassium	986 J	NA	ND
Sodium	5,760	NA	8,800
Zinc	26.4	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

1 – Dissolved metals result shown, total metals result detected lower than dissolved metals result

2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

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4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)		PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4578 UZZLE ROAD and DUPLIATE 2				
	PRIMARY	DUPLICATE		
Barium	15.7 J	15.4 J	2,000	15
Calcium	8,270	8,120	NA	6,900
Chromium	3.4 J	3.2 J	50	ND
Copper	20.1 J	14.1 J	1,000	62.4
Magnesium	2,110 J	2,070 J	NA	1,810
Manganese	12.6 J	12.2 J	50	ND
Nickel	2.6 J	3.1 J	100	ND
Potassium	808 J	763 J	NA	ND
Sodium	4,490 J	4,450 J	NA	8,800
Zinc	15.5 J	12.8 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4710 MORIAH ROAD			
Methyl Tert Butyl Ether	71.1	200	
Perchlorate	0.518	3.6	1.83
Aluminum	695	36,000	ND
Barium	17 J	2,000	15
Calcium	65,200	NA	6,900
Chromium	1.6 J	50	ND
Copper	50.4	1,000	62.4
Iron	3,290 ²	300	199
Lead	5.9	15	4.4
Magnesium	8,510	NA	1,810
Manganese	310	50	ND
Potassium	1,660 J	NA	ND
Sodium	17,700	NA	8,800
Zinc	102	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
4709 MORIAH ROAD			
Calcium	234 J ¹	NA	6,900
Copper	11.8 J	1,000	62.4
Iron	162	300	199
Magnesium	13.8 J	NA	1,810
Manganese	2.7 J	50	ND
Sodium	87,100	NA	8,800
Zinc	10.0 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
5057 CLAYTON ROAD			
Bis(2-ethylhexyl)phthalate	7.9	3	
Perchlorate	1.91	3.6	1.83
Aluminum	354	36,000	ND
Barium	52.4 J	2,000	15
Calcium	15,600	NA	6,900
Copper	25.6	1,000	62.4
Iron	3,210	300	199
Magnesium	4,570 J	NA	1,810
Manganese	222	50	ND
Nickel	3.5 J	100	ND
Potassium	1,800 J	NA	ND
Sodium	16,800	NA	8,800
Zinc	156	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

J – Value is estimated

Bold – Value exceeds the project screening level

1 – Dissolved metals result shown, total metals result detected lower than dissolved metals result

2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

3 – Dissolved metals result shown, total metals result not detected above the laboratory detection limit

4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
HESTER FARM			
Barium	24.1 J	2,000	15
Calcium	36,700	NA	6,900
Copper	6.7 J	1,000	62.4
Iron	1,280	300	199
Magnesium	7,000	NA	1,810
Manganese	540	50	ND
Mercury	0.12 J ³	1.1	ND
Potassium	2,890 J ²	NA	ND
Sodium	11,000	NA	8,800
Zinc	28.4	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

ND – Not detected at off-site location

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
627B ENON ROAD			
Aluminum	118 J	36,000	ND
Barium	22.8 J	2,000	15
Calcium	14,400	NA	6,900
Copper	9.2 J	1,000	62.4
Iron	984 ²	300	199
Magnesium	1,120 J	NA	1,810
Manganese	351	50	ND
Mercury	0.099 J	1.1	ND
Sodium	7,640	NA	8,800
Zinc	8.2 J	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

NA – None available

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4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
564 BETHANY CHURCH ROAD			
Perchlorate	10.3	3.6	1.83
Barium	260	2,000	15
Calcium	40,800	NA	6,900
Copper	6.5 J	1,000	62.4
Magnesium	5,610	NA	ND
Manganese	108	50	ND
Potassium	1,070 J	NA	ND
Sodium	17,800	NA	8,800
Zinc	20.6 ¹	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

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Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)	PROJECT SCREENING LEVEL (µg/L)	OFF-SITE RESULT ⁴
6305 ISHAM CHAMBERS ROAD			
Barium	37.6 J	2,000	15
Calcium	43,100	NA	6,900
Iron	1,000	300	199
Magnesium	9,190	NA	ND
Manganese	634	50	ND
Potassium	1,840 J ¹	NA	ND
Sodium	11,800	NA	8,800
Thallium	0.65 J ³	2	ND
Zinc	155	2,100	30.5

Notes:

Metals results are from the total metals analysis unless otherwise identified

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2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

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4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

Table 6: DETECTED RESULTS

LOCATION and DETECTED PARAMETER	RESULT (µg/L)		PROJECT SCREENING LEVEL (µg/L)
2022 TILLEY FARM ROAD AND DUPLICATE 3 (Off-site Location)			
	PRIMARY	DUPLICATE	
Alpha-chlordane	0.088	0.088	0.027 (total)
Gamma-chlordane	0.13	0.13	0.027 (total)
Heptachlor epoxide	0.48	0.49	0.004
Perchlorate	1.83	1.89	3.6
Arsenic	4.1 J ³	ND	10
Barium	12.6 J	14.9 J	2,000
Calcium	6,900	6,710	NA
Copper	62.4	75.9	1,000
Iron	199	185	300
Lead	4.4	3.8	15
Magnesium	1,770 J	1,730 J	NA
Sodium	8,800	9,010	NA
Zinc	37.3 ¹	79.5 ¹	2,100

Notes:

Metals results are from the total metals analysis unless otherwise identified

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ND – Not detected at off-site location

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Bold – Value exceeds the project screening level

1 – Dissolved metals result shown, total metals result detected lower than dissolved metals result

2 – Total metals result shown, dissolved metals result not detected above the laboratory detection limit

3 – Dissolved metals result shown, total metals result not detected above the laboratory detection limit

4 – Off-site location was selected because of its location outside of the boundaries of the former Camp Butner and absence of OEW in the vicinity. Off-site results are provided for comparison purposes

APPENDIX A

WELL INFORMATION

Table A-1: Well Information Summary

LOCATION	INSTALLATION DATE	WELL DRILLER INFO	WELL DEPTH	CASING DIAMETER/ DEPTH	PUMP DEPTH/ PUMP RATE	ESTIMATED DEPTH TO GROUNDWATER
National Guard			230 feet	6 inches/Unknown		
652 Lakeview Dr.	May 10, 2002	Acme Well Drilling	145 feet	6 inches/43 feet	Unknown/50 gpm	78 feet
653 Lakeview Dr.						
658 Lakeview Dr.	Fall/Winter 1996	Craig Husketh				
3536 Fletchers Way						
Camp Barham						
Camp Eason						
4051 Range Rd	1960s		200 feet		185 feet	
4149 Range Rd	August 2001		400 feet	Unknown/20 feet	350 feet/35 gpm	25 feet
750 Little Mountain Rd			185 feet			20 feet
4535 Uzzle Rd						
191 Falcon Lane	1991	Craig Husketh	425 feet	8 inches/35 feet	410 feet/6 gpm	280 feet
4553 Uzzle Rd	August 2002				Unknown/15 gpm	300 feet
4573 Uzzle Rd						
4578 Uzzle Rd						
4710 Moriah Rd	1950s		100 feet	6 inches		20 feet
4709 Moriah Rd						
5057 Clayton Rd						
Hester Farm/Residence off Uzzle Road						
627B Enon Rd						
564 Bethany Church Rd	1977	Heater Well Company	120 feet	6 inches	108 feet/2.3 gpm	15 feet
6305 Isham Chambers Rd			200 feet		Unknown/3-4 gpm	
2202 Tilley Farm Rd						

APPENDIX B

SAMPLING RECORD FORMS and CHAIN OF CUSTODY FORMS

GW N
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CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74646 X
Accutest Quote #:	

Client Information				Facility Information				Analytical Information																	
Debra L. McGrath				Former Camp Butner																					
Name 2 Technology Park Drive				Project Name																					
Address Westford MA 01886				Location																					
City State Zip				Project/PO #: 09090-068																					
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																					
Field ID / Point of Collection		Collection		Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A							
		Date	Time			Sampled By	HCL	NaOH	HNO3	H2SO4												None			
RW0804-658-LakeviewDr		8-9-04	1640	LB	GW	2					X	X													
RW0804-658-LakeviewDr					GW	2					X														
RW0804-658-LakeviewDr					GW	2					X														
RW0804-658-LakeviewDr	-1				GW	3					X				X										
RW0804-658-LakeviewDr					GW	1					X				X										
RW0804-658-LakeviewDr					GW	1			X							X									
RW0804-658-LakeviewDr					GW	1			X								X								
RW0804-658-LakeviewDr					GW	1		X										X							
	0				0																				
Turnaround Information				Data Deliverable Information				Comments / Remarks																	
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																									
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:			
Jany Ben		8/9/04 1914		1 FED Ex		2 FED Ex		08/10/2004 @ 10:00		2		3		4		4		5		5		5			
3				3		4				4		5				5		5				5			
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:															
						627		✓ KC		✓		4.2°													

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

N74646

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-653-LakeviewDr	8/9/04	1525	LB	GW	2						X	X											
RW0804-653-LakeviewDr				GW	2						X												
RW0804-653-LakeviewDr				GW	2						X		X										
RW0804-653-LakeviewDr				GW	3						X			X									
RW0804-653-LakeviewDr				GW	1						X			X									
RW0804-653-LakeviewDr				GW	1			X								X							
RW0804-653-LakeviewDr				GW	1			X									X						
RW0804-653-LakeviewDr				GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms				* 1 Bottle recieved broken K-08/10/04											
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
1 Amy Brya		8/9/04 1852		1 FED EX		2 FED EX		08/10/2004 @ 10:00		2		3				4		5				6	
3				3		4				4		5				5		6				7	
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
5				5		758, 578		✓ KC		✓		5				5		6				7	

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

NT4646

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-652-LakeviewDr	8/9/04	1350	LB	GW	2						X	X											
RW0804-652-LakeviewDr				GW	2						X												
RW0804-652-LakeviewDr				GW	2						X		X										
RW0804-652-LakeviewDr				GW	3						X			X									
RW0804-652-LakeviewDr				GW	1						X				X								
RW0804-652-LakeviewDr				GW	1			X								X							
RW0804-652-LakeviewDr				GW	1			X									X						
RW0804-652-LakeviewDr				GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
1 <i>Louie Berg</i>		08/04/1912		1 <i>FED EX</i>		2 <i>FED EX</i>		08/10/2004 @ 10:00		2 <i>[Signature]</i>		3				4		4				5	
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
3				3		4				4		5				5		5				5	
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
5				5		590		Preserved where applica		✓		5				5		5				5	

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	74646
Accutest Quote #:	

Client Information		Facility Information		Analytical Information																			
Debra L. McGrath		Former Camp Butner																					
Name 2 Technology Park Drive		Project Name																					
Address Westford MA 01886		Location																					
City State Zip		Project/PO #: 09090-068																					
Send Report to: Phone #: (978) 589-3358		FAX #: (978) 589-3282																					
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RWB0804-3536-FletchersWay	8/9/04	1735	LB	GW	2						X	X											
RWB0804-3536-FletchersWay				GW	2						X												
RWB0804-3536-FletchersWay				GW	2						X												
RWB0804-3536-FletchersWay				GW	3						X												
RWB0804-3536-FletchersWay				GW	1						X				X								
RWB0804-3536-FletchersWay				GW	1			X								X							
RWB0804-3536-FletchersWay				GW	1			X									X						
RWB0804-3536-FletchersWay				GW	1		X											X					
0				0																			
Turnaround Information		Data Deliverable Information		Comments / Remarks																			
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.		Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms																			
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
3		8/9/04 1907		1 FED Ex		2 FED Ex		08/10/2004 @ 10:00		2		3				4		5				4	
5				5		Seal # 756		Preserved where applica		On Ice: ✓ 4.6°													

TRC

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74646
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-NCNG	8/9/04	1230	LB	GW	2					X	X												
RW0804-NCNG				GW	2					X		X											
RW0804-NCNG				GW	2					X			X										
RW0804-NCNG				GW	3					X				X									
RW0804-NCNG				GW	1					X					X								
RW0804-NCNG				GW	1				X							X							
RW0804-NCNG				GW	1				X								X						
RW0804-NCNG				GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
Larry Benj		8/9/04 1844		1 FED EX		2 FED EX		08/10/2004 @ 10:00		2		3				4		5				6	
3				3		4						4						5				6	
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
						594		✓ Kc		✓ 4.4"													

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74646
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-FieldDup1	8/9/04	---	LB	GW	2						X	X											
RW0804-FieldDup1		---		GW	2						X												
RW0804-FieldDup1		---		GW	2						X		X										
RW0804-FieldDup1		---		GW	3						X			X									
RW0804-FieldDup1		---		GW	1						X				X								
RW0804-FieldDup1		---		GW	1			X								X							
RW0804-FieldDup1		---		GW	1			X									X						
RW0804-FieldDup1		---		GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:				Date Time: 8/9/04 1910				Received By: 1 FEDEX				Relinquished By: 2 FEDEX				Date Time: 08/10/2004 @ 1000				Received By:			
Relinquished by Sampler: 3				Date Time:				Received By: 3				Relinquished By:				Date Time:				Received By:			
Relinquished by Sampler: 5				Date Time:				Received By: 5				Seal # 604				Preserved where applica ✓ R				On Ice: ✓ 3.6"			

TRS

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

✓74646

Information

TR5

GW

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: **174770 174646 + X**
Accutest Quote #:

ENSR

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name 2 Technology Park Drive				Project Name																		
Address Westford MA 01886				Location																		
City State Zip				Project/PO #: 09090-068																		
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																		
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
	Date	Time				HCL	NaOH	HNO3	H2SO4	None												
RW0804-CampBarham	8/10/04	0905	JB	GW	2						X											
RW0804-CampBarham			JB	GW	2							X										
RW0804-CampBarham			JB	GW	2								X									
RW0804-CampBarham			JB	GW	3									X								
RW0804-CampBarham		0900	JB	GW	1										X							
RW0804-CampBarham			JB	GW	1			X								X						
RW0804-CampBarham			JB	GW	1			X									X					
RW0804-CampBarham			JB	GW	1		X											X				
0				0																		
Turnaround Information				Data Deliverable Information				Comments / Remarks														
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms				EX89 AMERIS WCLZ ALSE SLS 2096 • Batched p. e-mail; Batch closed @ 8/11/04										
Sample Custody must be documented below each time samples change possession, including courier delivery.																						
Relinquished by Sampler: <i>Samy Bay</i>		Date Time: 8/10/04 1730		Received By: <i>Felix</i>		1		Relinquished By: <i>Felix</i>		Date Time: 8/11/04 0950		2		Received By: <i>[Signature]</i>		2						
Relinquished by Sampler: 3		Date Time:		Received By: 3				Relinquished By: 4		Date Time:		4		Received By: 4								
Relinquished by Sampler: 5		Date Time:		Received By: 5				Seal # 702 <i>11/11</i>		Preserved where applica				On Ice: 4.6								

TRC

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

~~N74770~~ N74640

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	174770 ³ 174646
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-4051-RangeRd	8/10/04	1300	20	GW	2						X	X											
RW0804-4051-RangeRd		1300	20	GW	2						X												
RW0804-4051-RangeRd		1300	20	GW	2						X		X										
RW0804-4051-RangeRd		1300	20	GW	3						X			X									
RW0804-4051-RangeRd		1300	20	GW	1						X				X								
RW0804-4051-RangeRd		1300	20	GW	1			X								X							
RW0804-4051-RangeRd		1300	20	GW	1			X									X						
RW0804-4051-RangeRd		1300	20	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: <i>Long Debra</i>				Date Time: 8/10/04 1746				Received By: <i>Edix</i>				Relinquished By: <i>Edix</i>				Date Time: 8/11/04 0950				Received By: <i>[Signature]</i>			
Relinquished by Sampler: 3				Date Time:				Received By: 3				Relinquished By: 4				Date Time:				Received By: 4			
Relinquished by Sampler: 5				Date Time:				Received By: 5				Seal # 606				Preserved where applica				On Ice: 24			

TRC

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

② ~~N74770~~ N74646

formation

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

~~174776~~ 174646

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection			Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time	Sampled By			HCL	NaOH	HNO3	H2SO4	None													
RW0804-CampEason	8/10/04	1050	AB	GW	2					X	X												
RW0804-CampEason		1050		GW	2					X		X											
RW0804-CampEason		1050		GW	2					X			X										
RW0804-CampEason -10' F		1050		GW	3					X				X									
RW0804-CampEason		1050		GW	1					X					X								
RW0804-CampEason		1050		GW	1			X								X							
RW0804-CampEason		1050		GW	1			X									X						
RW0804-CampEason	↓	1050	↓	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
1		8/10/04 1738		Edix		2		8/11/04 0550		Edix		3				4		4					
3				3		4				4						4							
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:													
5				5		704 ✓ mtr						4.5'											

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

~~N74770~~ N74646

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	07777E N74676
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2Se4	None													
RW0804-750-LittleMountain	8/10/04		JS	GW	2						X	X											
RW0804-750-LittleMountain			JS	GW	2						X												
RW0804-750-LittleMountain			JS	GW	2						X												
RW0804-750-LittleMountain	8/11/04		JS	GW	3						X			X									
RW0804-750-LittleMountain			JS	GW	1						X				X								
RW0804-750-LittleMountain			JS	GW	1			X								X							
RW0804-750-LittleMountain			JS	GW	1			X									X						
RW0804-750-LittleMountain			JS	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: <i>Sam Berger</i>		Date Time: 8/10/04 1720		Received By: <i>Edg</i>		Relinquished By: <i>Edg</i>		Date Time: 8/11/04 0950		Received By: <i>[Signature]</i>													
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:													
3				3		4				4													
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:													
5				5		610 mtrcf				30													

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

① ~~N74770~~ N74646

Accutest Job #:	0174770 174646
Accutest Quote #:	

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	<i>174776 174646</i>
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection		Collection		Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
		Date	Time			Sampled By	HCL	NaOH	HNO3	H2SO4												None	
RW0804-191-FalconLane		8/10/04	1530	25	GW	2					X	X											
RW0804-191-FalconLane				25	GW	2					X												
RW0804-191-FalconLane				25	GW	2					X		X										
RW0804-191-FalconLane				25	GW	3					X			X									
RW0804-191-FalconLane				25	GW	1					X				X								
RW0804-191-FalconLane				25	GW	1			X							X							
RW0804-191-FalconLane				25	GW	1			X								X						
RW0804-191-FalconLane				25	GW	1		X										X					
	0				0																		
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
1		8/10/04 1750		1		2		8/11/04 0950		2		3		4		4		5		5		5	
3				3		4				4		5		677 m/301		Preserved where applica		On log:		30			

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

• ~~N74776~~ N74646

Accutest Quote #:

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	<i>77770</i> <i>N74676</i>
Accutest Quote #:	

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name 2 Technology Park Drive				Project Name																		
Address Westford MA 01886				Location																		
City State Zip				Project/PO #: 09090-068																		
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																		
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
	Date	Time				HCL	NaOH	HNO3	H2SO4	None												
RW0804-4149-RangeRd	8/10/04	1405	213	GW	2					X	X											
RW0804-4149-RangeRd			213	GW	2					X												
RW0804-4149-RangeRd			213	GW	2					X			X									
RW0804-4149-RangeRd			213	GW	3					X				X								
RW0804-4149-RangeRd			213	GW	1					X					X							
RW0804-4149-RangeRd			213	GW	1			X								X						
RW0804-4149-RangeRd			213	GW	1			X									X					
RW0804-4149-RangeRd			213	GW	1		X											X				
0				0																		

Turnaround Information		Data Deliverable Information		Comments / Remarks	
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.	Approved By: _____ _____	<input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms		

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
<i>Larry Benz</i>	8/10/04 1745	1 <i>Felix</i>	2 <i>Felix</i>	8/11/04 0950	2 <i>[Signature]</i>
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applica	On Ice:
5		5	608		30

TRC

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

• ~~N74770~~ N74646

1000

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

Accutest Quote #:

174514 ; X

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name				Project Name																		
2 Technology Park Drive																						
Address				Location																		
Westford MA 01886																						
City State Zip				Project/PO #:																		
				09090-068																		
Send Report to:				FAX #:																		
Phone #: (978) 589-3358				(978) 589-3282																		
Field ID / Point of Collection		Collection		Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
		Date	11/25			Sampled By	HCL	NaOH	HNO3	H2SO4												None
RW0804-4553-UzzleRd	8/11/04	11/25	20	GW	2						X	X										
RW0804-4553-UzzleRd			20	GW	2								X									
RW0804-4553-UzzleRd			20	GW	2									X								
RW0804-4553-UzzleRd			20	GW	3										X							
RW0804-4553-UzzleRd			20	GW	1											X						
RW0804-4553-UzzleRd			20	GW	1			X									X					
RW0804-4553-UzzleRd			20	GW	1			X										X				
RW0804-4553-UzzleRd			20	GW	1				X										X			
0				0																		

Turnaround Information		Data Deliverable Information		Comments / Remarks	
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.	Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms	E136 G134 2221 W118 ME8		

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By:	Relinquished By:	Date Time	Received By:
1 Sam Ray	8/11/04 1658	1 EdX	2 EdX	8/12/04 00950	2 [Signature]
3		3	4		4
5		5	Seal #	Preserved where applica	On Ice:
			reid whet	vs	4.9

2A

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Quote #:

TR

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	174914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-HesterFarm	8/11/04	1525	ZB	GW	2						X												
RW0804-HesterFarm			ZB	GW	2							X											
RW0804-HesterFarm			OB	GW	2								X										
RW0804-HesterFarm			OB	GW	3									X									
RW0804-HesterFarm			OB	GW	1										X								
RW0804-HesterFarm			OB	GW	1			X								X							
RW0804-HesterFarm			OB	GW	1			X									X						
RW0804-HesterFarm			OB	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
Jen Beja		8/11/04 1648		1 FedEx		2 FedEx		8/12/04 0950		2		3		4		4		5		5		5	

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	174914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name 2 Technology Park Drive				Project Name																		
Address Westford MA 01886				Location																		
City State Zip				Project/PO #: 09090-068																		
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																		
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
	Date	Time				HCL	NaOH	HNO3	H2SO4	None												
RW0804-4535-UzzleRd	8/11/04	1040	JB	GW	2					X	X											
RW0804-4535-UzzleRd			JB	GW	2					X		X										
RW0804-4535-UzzleRd			JB	GW	2					X			X									
RW0804-4535-UzzleRd			JB	GW	3					X				X								
RW0804-4535-UzzleRd			JB	GW	1					X					X							
RW0804-4535-UzzleRd			JB	GW	1				X							X						
RW0804-4535-UzzleRd			JB	GW	1				X								X					
RW0804-4535-UzzleRd			JB	GW	1				X									X				
0				0																		

Turnaround Information		Data Deliverable Information		Comments / Remarks	
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days)	Approved By: _____ RUSH TAT is for FAX data unless previously approved.	<input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms		

Sample Custody must be documented below each time samples change possession, including courier delivery.					
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	8/11/04 1710	1 FedEx	2 FedEx	8/12/04 0950	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
4		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applica	On Ice:
5		5	reid int	✓	3.7

JA

8

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Quote #:

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

N74914

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-4578-UzzleRd	8/11/04	0915	ZS	GW	2						X	X											
RW0804-4578-UzzleRd			ZS	GW	2						X												
RW0804-4578-UzzleRd			ZS	GW	2						X												
RW0804-4578-UzzleRd			ZS	GW	3						X												
RW0804-4578-UzzleRd		0925	ZS	GW	1						X				X								
RW0804-4578-UzzleRd			ZS	GW	1			X								X							
RW0804-4578-UzzleRd			ZS	GW	1			X									X						
RW0804-4578-UzzleRd			ZS	GW	1		X											X					
0			0																				
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
Laury Berg		8/11/04 1653		1 FedEx		2 FedEx		8/12/04 0950		2													
3				3		4				4													
5				5		Seal #		Preserved where applica		On Ice:													
						reid int		10															

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reid int

10

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Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

Accutest Quote #:

Seal # reed start
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TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

274914

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-627B-EnonRd	8/11/04	1630	JB	GW	2						X	X											
RW0804-627B-EnonRd			JB	GW	2						X												
RW0804-627B-EnonRd			JB	GW	2						X												
RW0804-627B-EnonRd			JB	GW	3						X												
RW0804-627B-EnonRd			JB	GW	1						X				X								
RW0804-627B-EnonRd			JB	GW	1			X								X							
RW0804-627B-EnonRd			JB	GW	1			X									X						
RW0804-627B-EnonRd			JB	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date/Time:		Received By:		Relinquished By:		Date/Time:		Received By:		Relinquished by Sampler:		Date/Time:		Received By:		Relinquished by Sampler:					
1 Larry Benji		8/11/04 1645		1 EdX		2 EdX		8/12/04 @ 0950		2		3				4		4.9					
3				3		4				4		5				5							
5				5		Seal #		Preserved where applica		On Ice:													

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JP

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

274914

Accutest Quote #:TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	<i>N74914</i>
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-4573-UzzleRd	8/11/04	1245	<i>JB</i>	GW	2					X	X												
RW0804-4573-UzzleRd			<i>JB</i>	GW	2					X		X											
RW0804-4573-UzzleRd			<i>JB</i>	GW	2					X			X										
RW0804-4573-UzzleRd			<i>JB</i>	GW	3					X				X									
RW0804-4573-UzzleRd			<i>JB</i>	GW	1					X					X								
RW0804-4573-UzzleRd			<i>JB</i>	GW	1			X								X							
RW0804-4573-UzzleRd			<i>JB</i>	GW	1			X									X						
RW0804-4573-UzzleRd			<i>JB</i>	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
<i>Sam Benj</i>		8/11/04 1715		1 <i>FedX</i>		2 <i>FedX</i>		8/12/04 0950		2 <i>[Signature]</i>		3				4		4				5	
5				5		Seal # <i>reidntat</i>		Preserved where applica <i>18</i>		On Ice: <i>5.0</i>													

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TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Quote #:

TRJ

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-FieldDup2	8/11/04	0915	JB	GW	2						X	X											
RW0804-FieldDup2			JB	GW	2						X												
RW0804-FieldDup2			JB	GW	2						X												
RW0804-FieldDup2	-7F		JB	GW	3						X												
RW0804-FieldDup2		0925	JB	GW	1						X				X								
RW0804-FieldDup2			JB	GW	1			X								X							
RW0804-FieldDup2			JB	GW	1			X									X						
RW0804-FieldDup2			JB	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
Lynn Benjamin		8/11/04 1655		1 FedEx		2 FedEx		8/12/04 0950		2		3		4		4		5		5		5	
3				3		4				4		5				5							
5				5		Seal #		Preserved where applica		On Ice:													
						reid intact		/ 8		4.2													

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TTS

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

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TRs

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: **174914** *X*

Accutest Quote #:

ENSR

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-6305-IshamChambers	8/12/04	1206	JS	GW	2						X	X											
RW0804-6305-IshamChambers		1200	JS	GW	2						X												
RW0804-6305-IshamChambers	9/1	1210	JS	GW	2						X		X										
RW0804-6305-IshamChambers		1205	JS	GW	3						X			X									
RW0804-6305-IshamChambers		1210	JS	GW	1						X				X								
RW0804-6305-IshamChambers		1210	JS	GW	1			X								X							
RW0804-6305-IshamChambers		1210	JS	GW	1			X									X						
RW0804-6305-IshamChambers		1210	JS	GW	1		X										X						
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms				(6x13) EXFO 2253 WCIS AMCL											
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: <i>John Barry</i>				Date Time: 8/12/04 1448				Received By: 1 FEDEX				Relinquished By: 2 FED EX				Date Time: 08/13/04 @ 10:30				Received By: 2			
Relinquished by Sampler: 3				Date Time:				Received By: 3				Relinquished By: 4				Date Time:				Received By: 4			
Relinquished by Sampler: 5				Date Time:				Received By: 5				Seal # 742				Preserved where applica				On Ice: <i>✓</i> 2.6°			

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74514

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: 174914
Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-MS	8/12/04	1200	JB	GW	2					X	X												
RW0804-MS		1200	JB	GW	2					X													
RW0804-MS		1205	JB	GW	2					X													
RW0804-MS		1205	JB	GW	3					X													
RW0804-MS		1210	JB	GW	1					X					X								
RW0804-MS		1210	JB	GW	1			X								X							
RW0804-MS		1210	JB	GW	1			X									X						
RW0804-MS		1210	JB	GW	1		X										X						
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler: <u>Sam Begin</u>				Date Time: <u>8/12/04 1252</u>				Received By: <u>FED EX</u>				Relinquished By: <u>2 FED EX</u>				Date Time: <u>08/15/04 @ 10:30</u>				Received By: <u>2</u>			
Relinquished by Sampler: <u>3</u>				Date Time: _____				Received By: <u>3</u>				Relinquished By: <u>4</u>				Date Time: _____				Received By: <u>4</u>			
Relinquished by Sampler: <u>5</u>				Date Time: _____				Received By: <u>5</u>				Seal # <u>752</u>				Preserved where applica <u>✓ K 08/13/04</u>				On Ice: <u>✓ 2.4°</u>			

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: N74917
Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-MSD	8/12/04	1200	JS	GW	2						X	X											
RW0804-MSD		1200	JS	GW	2						X												
RW0804-MSD		1205	JS	GW	2								X										
RW0804-MSD		1205	JS	GW	3									X									
RW0804-MSD		1210	JS	GW	1										X								
RW0804-MSD		1210	JS	GW	1			X								X							
RW0804-MSD		1210	JS	GW	1			X									X						
RW0804-MSD		1210	JS	GW	1		X											X					
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
3		8/12/04 1441		1 FedEx		2 FedEx		08/13/04 @ 10:30		2		3				4		4				5	
5				5		Seal # 754		Preserved where applica		On Ice: ✓ 2.2°													

TTS

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

formation

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

174914

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-4710-MoriahRd	8/12/04	0815	25	GW	2					X	X												
RW0804-4710-MoriahRd			25	GW	2					X		X											
RW0804-4710-MoriahRd			25	GW	2					X			X										
RW0804-4710-MoriahRd			25	GW	3					X				X									
RW0804-4710-MoriahRd			25	GW	1					X					X								
RW0804-4710-MoriahRd			25	GW	1			X								X							
RW0804-4710-MoriahRd			25	GW	1			X									X						
RW0804-4710-MoriahRd			25	GW	1		X											X					
0			0																				
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:	
Lamy Ben		8/12/04 1500		1 FED Ex		2 FED Ex		08/13/04 @ 10:30		2													
3				3		4				4													
5				5		692		Preserved where applicable		✓ Ke 08/13/04		On Ice: ✓		2.6°									

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N7491

Accutest Quote #:

TRs

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-4709-MoriahRd	8/12/04	0925	25	GW	2					X	X												
RW0804-4709-MoriahRd			25	GW	2					X													
RW0804-4709-MoriahRd			25	GW	2					X													
RW0804-4709-MoriahRd			25	GW	3					X													
RW0804-4709-MoriahRd			25	GW	1					X					X								
RW0804-4709-MoriahRd			25	GW	1				X							X							
RW0804-4709-MoriahRd			25	GW	1				X								X						
RW0804-4709-MoriahRd			25	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
1 Larry Benji		8/12/04 1505		1 FED EX		2 FED EX		08/13/04 @ 10:30		2		3		4		4		5		6		7	
3				3		4				4		5		6		7		8		9		10	
5				5		6		7		8		9		10		11		12		13		14	
						Seal #		Preserved where applica		On Ice:													
						694		✓ K 08/13/04		✓ 2.4°													

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

Information

TRC

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: W74914

Accutest Quote #:

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name 2 Technology Park Drive				Project Name																		
Address Westford MA 01886				Location																		
City State Zip				Project/PO #: 09090-068																		
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																		
Field ID / Point of Collection		Collection		Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
		Date	Time			Sampled By	HCL	NaOH	HNO3	H2SO4												None
RW0804-5057-ClaytonRd		8/12/04	1010	JL	25	GW	2					X	X									
RW0804-5057-ClaytonRd					25	GW	2					X										
RW0804-5057-ClaytonRd					25	GW	2					X		X								
RW0804-5057-ClaytonRd					25	GW	3					X		X								
RW0804-5057-ClaytonRd					25	GW	1					X			X							
RW0804-5057-ClaytonRd					25	GW	1			X						X						
RW0804-5057-ClaytonRd					25	GW	1			X							X					
RW0804-5057-ClaytonRd					25	GW	1		X									X				
0						0																

Turnaround Information		Data Deliverable Information		Comments / Remarks	
<input type="checkbox"/> 21 Day Standard	Approved By: _____	<input type="checkbox"/> NJ Reduced	<input type="checkbox"/> Commercial "A"		
<input type="checkbox"/> 14 Day		<input checked="" type="checkbox"/> NJ Full	<input type="checkbox"/> Commercial "B"		
<input checked="" type="checkbox"/> 7 Days EMERGENCY		<input type="checkbox"/> FULL CLP	<input type="checkbox"/> ASP Category B		
<input type="checkbox"/> Other _____ (Days)		<input type="checkbox"/> Disk Deliverable	<input type="checkbox"/> State Forms		
RUSH TAT is for FAX data unless previously approved.		<input type="checkbox"/> Other (Specify) _____			

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 <i>Laury Grapi</i>	8/12/04 1455	1 <i>FED EX</i>	2 <i>FED EX</i>	08/13/04 @ 10:30	2
3		3	4		4
5		5	Seal # <i>696</i>	Preserved where applica <i>✓ 08/13/04</i>	On loc: <i>✓ 2.2°</i>

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

Accutest Quote #:

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	1274914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information																	
Debra L. McGrath				Former Camp Butner																					
Name 2 Technology Park Drive				Project Name																					
Address Westford MA 01886				Location																					
City State Zip				Project/PO #: 09090-068																					
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																					
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A							
	Date	Time				HCL	NaOH	HNO3	H2SO4	None															
RW0804-2202-TilleyFarmRd	8/12/04	1300	JS	GW	2						X	X													
RW0804-2202-TilleyFarmRd			JS	GW	2								X												
RW0804-2202-TilleyFarmRd			JS	GW	2									X											
RW0804-2202-TilleyFarmRd	13F		JS	GW	3										X										
RW0804-2202-TilleyFarmRd			JS	GW	1											X									
RW0804-2202-TilleyFarmRd			JS	GW	1				X								X								
RW0804-2202-TilleyFarmRd			JS	GW	1				X									X							
RW0804-2202-TilleyFarmRd			JS	GW	1		X												X						
0				0																					
Turnaround Information				Data Deliverable Information				Comments / Remarks																	
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms																	
Sample Custody must be documented below each time samples change possession, including courier delivery.																									
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:		Relinquished by Sampler:		Date Time:		Received By:			
Sam Ben		8/12/04 1430		FED Ex		2 FED Ex		08/13/04 @ 10:30		2															
3				3		4				4															
5				5		Seal #		Preserved where applica		On Ice:															
						746		✓ Kc 08/12/04		✓ 4.8 °															

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

Accutest Quote #:

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:	N74914
Accutest Quote #:	

Client Information				Facility Information				Analytical Information														
Debra L. McGrath				Former Camp Butner																		
Name 2 Technology Park Drive				Project Name																		
Address Westford MA 01886				Location																		
City State Zip				Project/PO #: 09090-068																		
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																		
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A				
	Date	Time				HCL	NaOH	HNO3	H2SO4	None												
RW0804-564-BethanyChurch	8/12/04	1050	JS	GW	2						X	X										
RW0804-564-BethanyChurch			JS	GW	2						X											
RW0804-564-BethanyChurch			JS	GW	2								X									
RW0804-564-BethanyChurch	4/15		JS	GW	3									X								
RW0804-564-BethanyChurch			JS	GW	1										X							
RW0804-564-BethanyChurch			JS	GW	1			X								X						
RW0804-564-BethanyChurch			JS	GW	1			X									X					
RW0804-564-BethanyChurch			JS	GW	1		X											X				
0				0																		

Turnaround Information				Data Deliverable Information				Comments / Remarks			
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days)		Approved By: _____ RUSH TAT is for FAX data unless previously approved.		<input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____		<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms		* 1 PEST BOTTLE RECEIVED BROKEN. KL 08/13/04			

Sample Custody must be documented below each time samples change possession, including courier delivery.											
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
1 [Signature]		8/12/04 1442		FEDEx		2 FEDEx		08/13/04 @ 10:30		2	
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:	
3				3		4				4	
Relinquished by Sampler:		Date Time:		Received By:		Seal #		Preserved where applica		On Ice:	
5				5		744		✓ 08/13/04		✓ 2.8 °	

TRS

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Quote #:

N74914

TR5

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #:

N74914

Accutest Quote #:

Client Information				Facility Information				Analytical Information															
Debra L. McGrath				Former Camp Butner																			
Name 2 Technology Park Drive				Project Name																			
Address Westford MA 01886				Location																			
City State Zip				Project/PO #: 09090-068																			
Send Report to: Phone #: (978) 589-3358				FAX #: (978) 589-3282																			
Field ID / Point of Collection	Collection		Sampled By	Matrix	# of bottles	Preservation					SVOCs / 8270C	Pesticides / PCBs / 8081A / 8082	Herbicides / 8151	Explosives / Nitroglycerin / 8330/8332	Perchlorates / 8321M	TAL Metals (total) / 6010B / 6020 / 7470A	TAL Metals (dissolved) / 6010B / 6020 / 7470A	Cyanide / 9012A					
	Date	Time				HCL	NaOH	HNO3	H2SO4	None													
RW0804-FieldDup3	8/12/04	1300	JB	GW	2						X	X											
RW0804-FieldDup3			JB	GW	2						X												
RW0804-FieldDup3			JB	GW	2						X		X										
RW0804-FieldDup3			JB	GW	3						X			X									
RW0804-FieldDup3			JB	GW	1						X				X								
RW0804-FieldDup3			JB	GW	1			X								X							
RW0804-FieldDup3			JB	GW	1			X									X						
RW0804-FieldDup3			JB	GW	1		X											X					
0				0																			
Turnaround Information				Data Deliverable Information				Comments / Remarks															
<input type="checkbox"/> 21 Day Standard <input type="checkbox"/> 14 Day <input checked="" type="checkbox"/> 7 Days EMERGENCY <input type="checkbox"/> Other _____ (Days) RUSH TAT is for FAX data unless previously approved.				Approved By: _____ <input type="checkbox"/> NJ Reduced <input checked="" type="checkbox"/> NJ Full <input type="checkbox"/> FULL CLP <input type="checkbox"/> Disk Deliverable <input type="checkbox"/> Other (Specify) _____				<input type="checkbox"/> Commercial "A" <input type="checkbox"/> Commercial "B" <input type="checkbox"/> ASP Category B <input type="checkbox"/> State Forms															
Sample Custody must be documented below each time samples change possession, including courier delivery.																							
Relinquished by Sampler:		Date / Time:		Received By:		Relinquished By:		Date / Time:		Received By:		Relinquished by Sampler:		Date / Time:		Received By:		Relinquished by Sampler:		Date / Time:		Received By:	
1		8/12/04 1438		1 FEDEX		2 FEDEX		08/13/04 @ 10:36		2		3				4		5				6	
3				3		4				4		5				5		6				7	
5				5		921		Preserved where applica		Seal #		On Ice:		✓ 6.°									

TPS

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N 7451.

formation

TR5

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

N74914

formation

TR

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8-9-04

Well I.D. RW0804-NCNG

Property Owner: NC NATIONAL GUARD
 Address: OLD HQ RD
 Sampling Location: PUMP HOUSE - BLDG 4 3403 (SP140 AS WELL)
 Sampling Team: L. BENJAMIN S. SMITH, R. LIVERMORE, E. MCCORMICK
 Well Serial Number 2060776E Well Condition NEW
 GPS data R 206077E 885556 N Weather Conditions SUNNY
 Static Water Level N/A Reference Point _____
 Well Depth Sounding N/A Reference Point _____
 Well Casing Diameter N/A

Purging Method: RUNNING SP140
 Pumping Rate: N/A Pump Depth: N/A

Sampling Method: _____

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1157	7.03	PH 0.00	117.5	8.53	20.07	273.5
1203	6.84	0.00	34.0	7.95	20.48	425.2
1208	7.15	0.00	245.1	9.60	18.50	281.0
1211	7.11	0.00	1915.0	9.08	20.9	308.5
1216	7.15	0.00	1927.0	8.66	21.6	300.0

System Description: STARTED PURGING @ 1020. MUDDY WATER NOTED @ 1034.
WATER CLEAR @ 1038.

Method of Purge Water Disposal: DRAIN TO GROUND.

Comments:

STARTED CALIBRATION @ 1030. DIFFICULTY CALIBRATING TURBIDITY @ 1115. PHONE CONVERSATION WITH SCOTT ROSS OF ENSR TO DISCUSS CALIBRATION DIFFICULTIES. USE DEIONIZED WATER FOR 0 NTU CALIBRATION IN LIEU OF STANDARD.

1150 - AFTER PURGING FOR OVER 1.5 HOURS, DECISION MADE TO STABILIZE REGARDLESS OF PROBLEMS CALIBRATING TURBIDITY.

1216 - STABILIZATION COMPLETE, TURBIDITY READINGS OUT OF TOLERANCE INDICATING A PROBLEM WITH METER OR PROBE. WATER IS CLEAR.

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD						
Date: <u>8-9-04</u>		Well I.D. <u>RW080A-MCNG 652 RZL</u>				
Property Owner: _____						
Address: <u>652 LAKEVIEW DR.</u>						
Sampling Location: <u>WELL, LEFT OF DRIVEWAY (SPIGOT AT WELL)</u>						
Sampling Team: <u>L. BENJAMIN, S. SMITH, R. LIVERMORE, E. MCCORMICK, J. BADE</u>						
Well Serial Number _____		Well Condition <u>GOOD</u>				
GPS data <u>2068006E 888444N</u>		Weather Conditions <u>SUNNY</u>				
Static Water Level <u>N/A</u>		Reference Point _____				
Well Depth Sounding <u>N/A</u>		Reference Point _____				
Well Casing Diameter <u>N/A</u>		Reference Point _____				
Purging Method: <u>RUNNING SPIGOT</u>						
Pumping Rate: <u>N/A</u>		Pump Depth: <u>N/A</u>				
Sampling Method: _____						
System Modifications for Sampling _____						
Time	Ph (Std. Units) +/- 0.2	Conductivity (micro-ohms/cm) +/- 3%	Turbidity (NTU) +/- 10%	D.O. (mg/l) +/- 10%	Temp. (°C) +/- 1°C	ORP MV +/- 10mV
1330	5.16	0.00	327.7	5.50	22.07	380.8
1334	6.79	0.00	1955.6	5.28	23.28	394.7
1337	6.61	0.00	1941.7	4.82	22.21	448.4
1340	6.67	0.00	-34.8	4.86	21.75	484.0
1344	6.88	0.00	-46.5	4.88	21.94	492.2
System Description: <u>TURBIDITY & ORP APPEAR TO BE MALFUNCTIONING. STARTED SAMPLING VOCs @ 1347.</u>						
Method of Purge Water Disposal: <u>DRAIN TO GROUND</u>						
Comments: _____						

STARTED PURGING @ 1305. STOPPED PURGING @ 1345

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8-9-04

Well I.D. RW0804-653

3 DUP 1

Property Owner:

Address:

653 LAKEVIEW DR

Sampling Location:

WELL, RIGHT OF DRISWAY (SPIGOT AT WELL)

Sampling Team:

L. BENJAMIN, S. SMITH, R. LINEMORE, E. MCCORMICK, J. BADEL

Well Serial Number

Well Condition

GOOD

GPS data 2868007E 888443N

Weather Conditions

SUNNY

Static Water Level N/A

Reference Point

Well Depth Sounding N/A

Reference Point

Well Casing Diameter N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
1453	6.5	0.00	156.0	6.3	16.8	408
1456	5.52 5.52	0.00	13.9	4.84	16.6	226.4
1458	5.50	0.028	17.3	5.51	16.02	239.2
1502	5.41	0.00	8.9	3.94	16.09	268.4
1505	5.6	0.00	117.0	4.37	16.19	315.8
1509	5.65	0.00	150.5	4.39	16.57	642.2

System Description:

STARTED PURGING @ 1440. STOP PURGING @ 1510.

NOTE: TURBIDITY STILL NOT READING CORRECTLY.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8-9-04

Well I.D. 658 LALEVIEW ^{RPL}
RW080B-658

Property Owner: _____

Address: 1058 LALEVIEW

Sampling Location: WELL TO LEFT OF HOUSE (SPIGOT AT WELL)

Sampling Team: C. BENJAMIN, S. SMITH, R. LIVERMORE, E. MCCORMICK, J. BADE

Well Serial Number _____

Well Condition GOOD

GPS data 2068441 E 888075 N

Weather Conditions SUNNY

Static Water Level N/A

Reference Point _____

Well Depth Sounding N/A

Reference Point _____

Well Casing Diameter N/A

Purging Method: DRAIN TO GROUND, RUNNING SPIGOT

Pumping Rate: N/A Pump Depth: N/A

Sampling Method: _____

System Modifications for Sampling _____

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
16:16	6.51	0.139	145.4	3.92	16.47	182.6
16:19	6.36	0.130	215.0	3.42	15.99	222.6
16:23	6.35	0.134	389.2	3.07	16.13	281.5
16:26	6.38	0.00	364.8	3.64	16.06	327.5

System Description: STARTED PURGING @ 1600. STOPPED PURGING @ 1627

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: _____

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD						
Date: <u>8-9-04</u>			Well I.D. <u>RW0804-3536</u>			
Property Owner: _____						
Address: <u>3536 FLETCHER'S WAY</u>						
Sampling Location: <u>WELL BEHIND HOUSE (SPIGOT AT WELL)</u>						
Sampling Team: <u>L. BENJAMIN, S. SMITH, R. LNERMOSE, E. MCCORMICK, J. BADEN</u>						
Well Serial Number _____			Well Condition <u>GOOD</u>			
GPS data <u>2071621E 891609N</u>			Weather Conditions <u>SUNNY</u>			
Static Water Level <u>N/A</u>			Reference Point _____			
Well Depth Sounding <u>N/A</u>			Reference Point _____			
Well Casing Diameter <u>N/A</u>			_____			
Purging Method: <u>RUNNING SPIGOT</u>						
Pumping Rate: <u>N/A</u>			Pump Depth: <u>N/A</u>			
Sampling Method: _____						
System Modifications for Sampling _____						
Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
17:16	5.78	0.00	108.7	4.63	16.97	224.8
1721	5.76	0.00	246.8	4.65	15.85	228.9
1725	5.84	0.048	275.5	5.23	15.95	214.0
1729	6.05	0.00	491.6	4.02	17.3	244.3
System Description: <u>1705 START PURGING STOP PURGING @ 1730</u>						
Method of Purge Water Disposal: <u>DRAIN TO GROUND</u>						
Comments: _____						

130ft PUMP DEPTH

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW0804-Camp Barham

Property Owner: Camp Barham
 Address: Barham-Eason Road
 Sampling Location: Well House BEFORE GATE (TO THE RIGHT OF GATE)
 Sampling Team: RAY LIVERMORE, LARRY BENJAMIN, STACEY SMITH
 Well Serial Number _____ Well Condition GOOD
 GPS data 2070437 E 983108 N Weather Conditions SUNNY
 Static Water Level N/A Reference Point _____
 Well Depth Sounding N/A Reference Point _____
 Well Casing Diameter N/A

Purging Method: RUNNING SPIGOT
 Pumping Rate: N/A Pump Depth: N/A
 Sampling Method: _____

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
8:42	6.84	0.00	2902.3	4.97	16.48	242.8
8:45	6.95	0.00	2902.7	5.27	16.44	246.4
8:48	6.98	0.367	658.9	4.95	15.99	250.0
8:54	7.04	0.000	665.6	9.30	16.25	258.9

System Description: START PURGING @ 7:20am STOP PURGING @ 8:55am
CALIBRATION FROM 0720 TO 0842

Method of Purge Water Disposal: DRAIN TO GROUND
 Comments: _____

DAY 2: STILL HAVING DIFFICULTY CALIBRATING TURBIDITY FOR THE WATER QUALITY METER. TURBIDITY READINGS REFLECT THIS, HOWEVER, WATER IS CLEAR.

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW0804-Eason

Property Owner: Camp Eason
 Address: BARHAM-EASON Rd.
 Sampling Location: SP160 INSIDE CAMP BLDG BEFORE PRESSURE TANK
 Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH
 Well Serial Number _____ Well Condition GOOD
 GPS data 2069447E 883818N Weather Conditions SUNNY
 Static Water Level N/A Reference Point _____
 Well Depth Sounding N/A Reference Point _____
 Well Casing Diameter N/A

Purging Method: RUNNING SP160
 Pumping Rate: N/A Pump Depth: N/A
 Sampling Method: _____

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
10:26	6.67	0.272	702.4	6.48	16.82	203.6
10:29	6.59	0.00	208.4	6.34	16.87	224.7
10:32	6.58	0.139	41.4	6.14	16.66	234.5
10:35	6.56	0.139	100.2	6.31	16.65	249.2

System Description: START PURGING @ 10:12 AM. STOP PURGING @ 10:35

Method of Purge Water Disposal: _____
 Comments: DRAIN TO GROUND

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW0804-4051

Property Owner:

Address:

4051 RANGE RD.

Sampling Location:

SP1605 AT CONCRETE SLAB IN FRONT OF HOUSE

Sampling Team:

CARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

36° 14' 05.870" N

Well Condition

GOOD

GPS data

78° 44' 57.269" W

Weather Conditions

SUNNY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SP1605

Pumping Rate:

N/A

Pump Depth:

N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
1233	7.63	0.318	- 8.9	1.72	20.10	166.4
1235	7.6	0.00	22.1	2.97	21.07	188.4
1238	7.81	0.00	1130	8.98	20.58	171.8
1242	7.75	0.00	3047	8.77	21.63	189.6

System Description: START PURGING @ 12:17 STOP PURGING @ 12:50

NOTE: FIRST TWO D.O. READINGS APPEAR INCORRECT. PURGED FOR OVER 30 MIN.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW0804-4149

Property Owner:

Address:

Sampling Location:

Sampling Team:

Well Serial Number

Well Condition

GPS data 36°14'34.542" N 78°44'36.844" W

Weather Conditions

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth:

N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1345	7.04	0.00	161.4	2.91	17.74	200.5
1348	6.79	0.00	169.4	3.22	18.78	205.3
1352	7.14	0.00	1315.5	2.86	16.72	216.2
1355	7.22	0.248	192.8	3.00	17.65	208.4

System Description: START PURGING @ 1330. STOP PURGING @ 1355.

Method of Purge Water Disposal:

Comments:

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW0804-191

Property Owner: _____

Address: _____

Sampling Location: 191 FALCON CANYE

Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number _____

Well Condition GOOD

GPS data 36°15'16.766"N 78°47'38.583"W

Weather Conditions SUNNY

Static Water Level N/A

Reference Point _____

Well Depth Sounding N/A

Reference Point _____

Well Casing Diameter N/A

Purging Method: _____

RUNNING SPIGOT

Pumping Rate: _____

N/A

Pump Depth: N/A

Sampling Method: _____

System Modifications for Sampling _____

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1512	7.78	0.454 0.454	703.9	2.40	16.70	19.1
1515	7.70	0.434	96.4	2.92	17.29	26.3
1518	7.69	0.433	112.0	2.96	16.04	25.0
1520	7.67	0.824	68.5	2.70	16.00	34.5

System Description: START PURGING @ 1455. STOP PURGING @ 1520

Method of Purge Water Disposal: _____

DRAIN TO GROUND

Comments: _____

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/10/04

Well I.D. RW090A-750

Property Owner:

Address:

Sampling Location:

Sampling Team:

Well Serial Number

Well Condition

GPS data 36° 13' 02.050"N 78° 45' 55.643"W

Weather Conditions

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

Running Spigot

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
1645	8.07	0.953	256.7	2.21	16.78	67.1
1648	8.04	0.495	190.5	2.41	16.48	76.5
1652	8.03	0.00	142.5	2.85	16.59	85.7
1656	8.09	0.00	23.6	2.36	16.61	24.1

System Description:

START PURGING @ 1630, STOP PURGING @ 1700

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-^{PL}4578
AND DUP 2

Property Owner:

Address:

4578 EZZLE RD.

Sampling Location:

RW0804-4578 SPIGOT BEFORE FILTER IN CRAWL SPACE

Sampling Team:

LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

3RL

Well Condition

GOOD

GPS data

36° 16' 20.860" N 78° 47' 36.165" W

Weather Conditions

SUNNY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
0905	6.01	0.096	54.6	6.20	17.07	207.4
0907	6.03	0.000	527.5	6.24	16.09	222.2
0909	6.00 6.00	0.083	146.0	6.56	15.37	226.9

System Description: START PURGING @ 0815, STOP PURGING @ 0900.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

3RL

DAY 3: STILL HAVING DIFFICULTY CALIBRATING TURBIDITY. TURBIDITY READINGS REFLECT THIS. WATER IS CLEAR

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-4535

Property Owner:

Address:

Sampling Location:

Sampling Team:

Well Serial Number

Well Condition

GPS data 36°15'18" N 78°48'04.8" W

Weather Conditions

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1025	5.46	0.082	127.9	3.35	16.33	199.6
1028	5.48	0.047	61.6	2.11	16.21	202.9
1030	5.77	0.00	1563.2	2.72	16.33	177.1

System Description: START PURGING @ 1005. STOP PURGING @ 1032.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments: CLOUDY WATER

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-4553

Property Owner:

Address: 4553 UZZIE Rd.

Sampling Location: SPIGOT AT WELL IN FRONT YARD

Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36° 15' 29" N 78° 47' 50.020" W

Weather Conditions

SKINNY

Static Water Level N/A

Reference Point

Well Depth Sounding N/A

Reference Point

Well Casing Diameter N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1108	7.51	0.272	138.7	2.71	16.41	93.3
1112	7.64	0.00	892.9	3.99	17.69	145.5
1115	7.78	0.00	8.8	2.99	16.03	121.8
1117	7.78	0.146	39.7	1.94	15.89	104.0

System Description: STARTED PURGING @ 1050. STOP PURGING @ 1117

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-4573

Property Owner:

Address: 4573 WILLOW ROAD

Sampling Location: SPIGOT AT REAR OF HOUSE, NO SPIGOT AS WELL IN FRONT YARD

Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36° 15' 29.140" N 78° 47' 42.021" W

Weather Conditions

SUNNY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	DO (mg/l)	Temp. (°C)	ORP MV
<u>1215</u>	<u>+/- 0.2</u>	<u>+/- 3%</u>	<u>+/- 10%</u>	<u>+/- 10%</u>	<u>+/- 1°C</u>	<u>+/- 10mV</u>
<u>1215</u>	<u>6.56</u>	<u>0.070</u>	<u>912.5</u>	<u>5.82</u>	<u>17.92</u>	<u>146.0</u>
<u>1220</u>	<u>6.29</u>	<u>0.114</u>	<u>32.9</u>	<u>6.15</u>	<u>16.75</u>	<u>157.1</u>
<u>1222</u>	<u>6.16</u>	<u>0.109</u>	<u>93.5</u>	<u>5.43</u>	<u>16.66</u>	<u>150.8</u>
<u>1232</u>	<u>6.14</u>	<u>0.107</u>	<u>-148.5</u>	<u>5.12</u>	<u>16.50</u>	<u>118.7</u>
<u>1236</u>	<u>6.15</u>	<u>0.057</u>	<u>-21.2</u>	<u>5.16</u>	<u>16.56</u>	<u>114.8</u>

System Description:

START PURGING @ 1215, STOP PURGING @ 1237.
1200

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

PURGED APPROXIMATELY 40 MINUTES TO ADDRESS THE POTENTIAL FOR THE SAMPLING LOCATION AFTER A PRESSURE TANK. STABILIZATION PARAMETERS APPEAR ACCEPTABLE (EXCLUDING TURBIDITY) FOR THE FINAL 3 READINGS TAKEN.

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-HESTER

Property Owner:

Address:

Hester Farm

Sampling Location:

SPIGOT AS FRONT OF BARN. WELL BEHIND HOUSE HAS NO SPIGOT

Sampling Team:

CARRY BENJAMIN, RAG HVERMORE, STACEY SMITH

Well Serial Number 36 PL

Well Condition

GPS data 36° 15' 54.023" N 78° 47' 09.131" W

Weather Conditions

SUNNY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^{\circ}\text{C}$	$\pm 10\text{mV}$
1505	6.91	0.00	300.8	5.28	21.73	54.6
1508	6.88	0.00	300.6	2.65	20.18	61.6
1510	6.91	0.158	129.4	2.62	18.59	56.1
1516	6.83	0.299	8.3	2.85	18.51	56.2

System Description: START PURGING @ 1442, STOP PURGING @ 1516.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

SAMPLING LOCATION POTENTIALLY AFTER PRESSURE TANK. PURGED SECOND SPIGOT DIRECTLY TO TANK TO EXPEDITE PURGING PROCESS. SPIGOT FROM TANK BECAME DRY AT APPROXIMATELY 1455. TOTAL PURGING TIME WAS APPROXIMATELY 35-40 MINUTES. 1 of 1

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/11/04

Well I.D. RW0804-627

Property Owner: _____

Address: 6271B ENON RD

Sampling Location: SPIGOT AT FRONT OF TRAILER. WELL BEHIND TRAILER HAS NO SPIGOT.

Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number _____

Well Condition _____

GPS data 36°14'49.555" N 78°46'31.064" W Weather Conditions SNOWY

Static Water Level N/A

Reference Point _____

Well Depth Sounding N/A

Reference Point _____

Well Casing Diameter N/A

Purging Method: RUNNING SPIGOT

Pumping Rate: N/A

Pump Depth: N/A

Sampling Method: _____

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP mV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1610	6.77	0.083	168.4	7.38	17.26	139.4
1617	6.41	0.091	186.9	5.06	17.34	188.7
1619	6.31	0.061	326.4	5.62	16.42	149.8
1622	6.30	0.046	271.1	5.68	16.33	148.4

System Description: START PURGING @ 1548. STOP PURGING @ 1624.

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: _____

PURGED APPROXIMATELY 40 MINUTES TO ADDRESS THE POTENTIAL FOR THE SAMPLING LOCATION AFTER A PRESSURE TANK. STABILIZATION PARAMETERS APPEAR ACCEPTABLE (EXCLUDING TURBIDITY AND ORP) FOR THE FINAL 3 READINGS TAKEN.

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0804-4710

Property Owner:

Address:

4710 MORIAH RD

01572

Sampling Location:

SPIGOT AT WELL BEHIND HOUSE.

Sampling Team:

LARRY BENJAMIN, KAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36°16'24.793"N 78°47'46.742"W

Weather Conditions

SUNNY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth:

N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
0757	6.14	0.082	2120.4	4.89	17.73	204.1
0802	6.25	0.00	1794.8	5.23	18.52	212.3
0805	6.44	0.00	1541.3	5.11	17.60	216.6

System Description:

START PURGING @ 0745. STOP PURGING @ 0810.

Method of Purge Water Disposal:

DRAIN TO GROUND.

Comments:

RESIDENT EXPRESSED CONCERN ABOUT PUMP LOSING ITS PRIME @ 0755.
THEREFORE, ONLY PURGED AT A HIGH FLOW RATE UNTIL COLLECTION
OF STABILIZATION PARAMETERS (APPROXIMATELY 12 MINUTES).

DAY 4: DIFFICULTY CALIBRATING TURBIDITY AS REFLECTED BY TURBIDITY
READINGS. WATER IS CLEAR.

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0804 - 4709

Property Owner:

Address:

4709 MORIAH RD 27572

Sampling Location:

SPIGOT AT FRONT OF HOUSE. WELL BEHIND HOUSE HAS NO SPIGOT

Sampling Team:

LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36°16'28.701"N 78°41'47.081"W

Weather Conditions

CLOUDY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units) +/- 0.2	Conductivity (micro-ohms/cm) +/- 3%	Turbidity (NTU) +/- 10%	D.O. (mg/l) +/- 10%	Temp. (°C) +/- 1°C	ORP MV +/- 10mV
0903	7.42	0.376	3064.1	2.90	17.62	147.8
0908	7.41	0.00	-375.1	2.86	17.72	175.0
0912	7.40	0.371	7032.1	2.66	17.55	189.4
0914	7.51	0.00	-449.4	2.32	17.55	194.2

System Description:

START PURGING @ 0840. STOP PURGING @ 0915.

Method of Purge Water Disposal:

DRAIN TO GROUND

Comments:

TURBIDITY METER MALFUNCTIONING

PURGED APPROXIMATELY 35 MINUTES TO ADDRESS THE POTENTIAL FOR THE SAMPLING LOCATION AFTER A PRESSURE TANK.

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0804-5057

Property Owner:

Address:

5057 CLAYTON RD.

27572

Sampling Location:

SPIGOT AS WELL TO RIGHT OF HOUSE.

Sampling Team:

LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36°17'04.075"N 78°48'09.730"W

Weather Conditions

CLOUDY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph. (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
0955	5.98	0.245	3741.0	2.08	16.59	111.7
0958	6.00	0.131	3558.7	2.77	16.31	105.3
1000	6.21	0.00	278.7	2.07	17.30	38.9
1000						

System Description: START PURGING @ 0935, STOP PURGING @ 10:02.

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: TURBIDITY METER MALFUNCTIONING. WATER WAS SLIGHTLY

CLOUDY

**Figure FSP-3
Well Purge and Sampling Record**

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0804-56A

Property Owner:

Address:

564 Bethany Church Road 27572

Sampling Location:

SPIGOT IN FRONT OF SHED. WELL IN FRONT YARD HAS NO SPIGOT

Sampling Team:

LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GPS data 36°15'17.546" N 78°49'11.567" W

Weather Conditions CLOUDY

Static Water Level N/A

Reference Point

Well Depth Sounding N/A

Reference Point

Well Casing Diameter N/A

Purging Method:

RUNNING SPIGOT

Pumping Rate:

N/A

Pump Depth: N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1040	7.18	0.00	-999.9	2.85	20.76	114.9
1042						
1046						

System Description: START PURGING @ 10:22. STOP PURGING @ 1043.

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: TMM

REL AT THE SAMPLING LOCATION WAS POTENTIALLY LOCATED AFTER A PRESSURE TANK THEREFORE, THE SPIGOT WAS PLANNED FOR ^{REL PURGING} ~~RUNNING~~ FOR APPROXIMATELY 30-40 MINUTES. HOWEVER, AT 1043, FLOW FROM THE SPIGOT SLOWED AND STOPPED PERIODICALLY. THE RESIDENT WAS QUESTIONED AND INDICATED A COUPLE OF LOADS OF WASH WERE DONE IN THE MORNING WHICH MAY HAVE ACCOUNTED FOR THE LOW FLOW. AT 1045 THE FLOW STOPPED PERIODICALLY. IT WAS DETERMINED THE PRESSURE TANK AND WELL HAD BEEN PURGED ADEQUATELY. SAMPLING STARTED AT 1045.

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0804-6305

Property Owner: _____

Address: 6305 Sham Chambers Road

Sampling Location: SP1405 AT WELL IN FRONT YARD

Sampling Team: LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number _____

Well Condition GOOD

GPS data 36°13'46.783"N 78°48'17.247"W Weather Conditions CLOUDY

Static Water Level N/A

Reference Point _____

Well Depth Sounding N/A

Reference Point _____

Well Casing Diameter N/A

Purging Method: 2.0 MIN 571405

Pumping Rate: N/A

Pump Depth: N/A

Sampling Method: _____

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/L)	Temp. (°C)	ORP MV
	+/- 0.2	+/- 3%	+/- 10%	+/- 10%	+/- 1°C	+/- 10mV
1145	7.02	0.194	3063.4	2.28	17.44	-18.2
1148	6.95	0.193	4650.4	2.55	17.00	-28.2
1150	6.92	0.192	7221.2	2.50	17.00	-28.2

System Description:

START PURGING @ 1124. STOP PURGING @ 1152.

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: TMM (TURBIDITY METER MALFUNCTIONING)

Figure FSP-3
Well Purge and Sampling Record

WELL PURGE AND SAMPLING RECORD

Date: 8/12/04

Well I.D. RW0304-2202

Property Owner:

Address:

2202 TILLEY FARM ROAD

Sampling Location:

SPILLOT AS WELL TO RIGHT OF HOUSE

Sampling Team:

LARRY BENJAMIN, RAY LIVERMORE, STACEY SMITH

Well Serial Number

Well Condition

GOOD

GPS data 36° 13' 32" N 78° 50' 26.225" W

Weather Conditions

RAINY

Static Water Level

N/A

Reference Point

Well Depth Sounding

N/A

Reference Point

Well Casing Diameter

N/A

Purging Method:

RUNNING SPILLOT

Pumping Rate:

N/A

Pump Depth:

N/A

Sampling Method:

System Modifications for Sampling

Time	Ph (Std. Units)	Conductivity (micro-ohms/cm)	Turbidity (NTU)	D.O. (mg/l)	Temp. (°C)	ORP MV
	± 0.2	$\pm 3\%$	$\pm 10\%$	$\pm 10\%$	$\pm 1^\circ\text{C}$	$\pm 10\text{mV}$
1245	6.21	0.054	-999.9	6.42	16.48	167.0
1248	6.15	0.023	-999.9	6.45	16.07	183.1
1250	6.06	0.051	5349.5	6.61	16.08	196.3

System Description:

START PURGING @ 1226. STOP PURGING @ 1250.

Method of Purge Water Disposal: DRAIN TO GROUND

Comments: TMM (TURBIDITY METER MALFUNCTIONING)